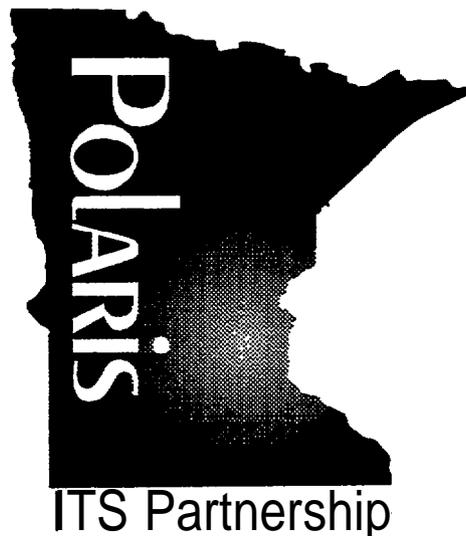


Minnesota Intelligent Transportation Systems

ITS Component Specification

APPENDIX B: Input Data Flows for Components



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This appendix defines the input data flows for each component of the Polaris Physical Architecture. The appendix is arranged in alphabetical order according to the destination component (i.e., the component that is receiving the data). For each destination component, the data flows are listed in alphabetical order. Each data flow is defined and its associated source component (i.e., the component that sent the data) is listed. Duplicate source component entries indicate that multiple services utilize the same data flow between source and destination components.

ITS Component Specification

Appendix B: Input Data Flows for Components

Destination Component	Data Flow Name	Definition	Source Component
Account Management Provider(s)	Account Validation Notice	consists of a confirmation that a user's bank account or credit card number is correct and valid.	Financial Institution(s)
	Service Payment	consists of payments for parking, tolls, transit fares, traveler information services.	Financial Institution(s)
			Other Transit Management Center(s)
			Parking Management Center(s)
			Regional ITS Management Center
			Toll Authority Center(s)
	Service Pricing Structures	consists of information about the rates charged for various transportation services (including ATIS services).	Transit Service Provider(s)
			Demand Responsive Transit Center(s)
			Mayday Service Provider(s)
			Other Transit Management Center(s)
Parking Management Center(s)			
Regional ITS Management Center			
Tailored Traveler Information Provider(s)			
Toll Authority Center(s)			
Transit Service Provider(s)			
Service Usage Data			consists of data required to generate a user's service invoice for services rendered as well as overall transit resource statistics, including trip origin and destination, departure and arrival time, vehicle % full at stop, (continued)
	Mayday Service Provider(s)		
	Other Transit Management Center(s)		
	Parking Management Center(s)		
	Regional ITS Management Center		
	Tailored Traveler Information Provider(s)		

Destination Component	Data Flow Name	Definition	Source Component
Account Management Provider(s)	Service Usage Data - 1	consists of data required to generate a user's service invoice for services rendered as well as overall transit resource statistics, including trip origin and destination, departure and arrival time, vehicle % full at stop, (continued)	Toll Authority Center(s)
			Transit Service Provider(s)
	Service Usage Data - 2	(continued) number of passengers entering and exiting vehicle at stop, payment method, fare type, vehicle dwell time at stop, and wheel chair lift use at stop.	Demand Responsive Transit Center(s)
			Mayday Service Provider(s)
			Other Transit Management Center(s)
			Parking Management Center(s)
			Regional ITS Management Center
			Tailored Traveler Information Provider(s)
			Toll Authority Center(s)
			Transit Service Provider(s)
	User Profile	consists of information specific to a user that uniquely identifies that user and their travel information preferences.	User Interface Equipment
Basic Vehicle	Payment Confirmation	consists of an acknowledgement that payment was received.	Parking Management Roadside Equipment
			Toll Collection Roadside Equipment
Broadcast Information Provider(s)	Incident Acknowledgement	consists of notification to the reporting source of the incident that incident data has been received and/or incident resources have been dispatched.	Demand Responsive Transit Center(s)
			Division of Emergency Management Center
			Freeway Traffic Management Center
			Incident Dispatch Center(s)
			Inter-Jurisdictional Incident Management System
			Maintenance Dispatch Center
			Other Transit Management Center(s)
			Regional ITS Management Center

Destination Component	Data Flow Name	Definition	Source Component
Broadcast Information Provider(s)	Incident Acknowledgement	consists of notification to the reporting source of the incident that incident data has been received and/or incident resources have been dispatched.	Regional ITS Management system
			State Patrol Dispatch Center
	Incident Conditions	consists of stored information applicable to an active incident that has impact on current travel conditions	Regional ITS Management system
	Incident Data	consists of information that is collected about an incident but may not be organized or stored in a repository. (e.g. incident location, type of incident and timestamp)	User Interface Equipment
	Parking Conditions	consists of information about parking availability and parking lot status (e.g open, closed)	Regional ITS Management System
	Planned Event Information	consists of information about construction and/or special events (e.g. sporting events, parades)	External Information Source(s)
			Regional ITS Management System
			User Interface Equipment
	Road Surface Conditions	consists of current and/or forecast road conditions such as dry, wet, flooded, snow covered, slippery, plowed, salted, sanded (based on road surface surveillance data and weather forecasts).	External Information Source(s)
			Regional ITS Management System
			User Interface Equipment
	Road Surface Surveillance Data	consists of processed and summarized information that is created for describing the road surface conditions of a pre-determined location. (e.g. condition of road surface, road surface temperature, timestamp, & location)	Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Freeway Traffic Management Center
			Tailored Traveler Information Provider(s)
Traffic Conditions	consists of information about flow of traffic for a pre-determined reporting area.	Centralized Control Signal Center(s)	
		Decentralized Control Signal Center(s)	
		Freeway Traffic Management Center	
		Regional ITS Management system	

Destination Component	Data Flow Name	Definition	Source Component
Broadcast Information Provider(s)	Traffic Surveillance Data	consists of processed and summarized information about vehicles or incidents that may effect the travel of drivers within a pre-defined geographic location. (e.g. speed, vehicle quantity, road density, time stamp, and location of where data is generated.	Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Freeway Traffic Management Center
			Tailored Traveler Information Provider(s)
	Transit Conditions	consists of information about transit vehicle schedule adherence, rideshare data, and transit provider information including but not limited to vehicle ID, transit stop, estimated vehicle arrival time, estimated vehicle departure time, current schedule.	Regional ITS Management System
	Weather Conditions	consists of current and/or forecast weather conditions such as rain, snow, fog, sunny, clear.	External Information Source(s)
			Regional ITS Management system
	Weather Surveillance Data	consists of current weather data as received from devices (e.g. radar, video).	Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Freeway Traffic Management Center
Tailored Traveler Information Provider(s)			
Centralized Control Signal Center(s)	Incident Acknowledgment	consists of notification to the reporting source of the incident that incident data has been received and/or incident resources have been dispatched	Demand Responsive Transit Center(s)
			Division of Emergency Management Center
			Freeway Traffic Management Center
			Incident Dispatch Center(s)
			Incident Dispatch Center(s)
			Inter-Jurisdictional Incident Management System
			Maintenance Dispatch Center
			Other Transit Management Center(s)

Destination Component	Data Flow Name	Definition	Source Component
Centralized Control Signal Center(s)	Incident Acknowledgement	consists of notification to the reporting source of the incident that incident data has been received and/or incident resources have been dispatched.	Regional ITS Management Center
			Regional ITS Management System
			State Patrol Dispatch Center
			State Patrol Dispatch Center
	Incident Conditions	consists of stored information applicable to an active incident that has impact on current travel conditions	Centralized Control Signal Center(s)
			Incident Dispatch Center(s)
			State Patrol Dispatch Center
			State Patrol Dispatch Center
			User Interface Equipment
			Demand Responsive Transit Center(s)
Incident Data	consists of information that is collected about an incident but may not be organized or stored in a repository. (e.g. incident location, type of incident and timestamp)	Division of Emergency Management Center	
		Freeway Traffic Management Center	
		Incident Dispatch Center(s)	
		Inter-Jurisdictional Incident Management System	
		Maintenance Dispatch Center	
		Other Transit Management Center(s)	
		Regional ITS Management Center	
		State Patrol Dispatch Center	
		User Interface Equipment	
		Incident Response status	consists of ETAS of responding resources, current step of response procedure, and estimated time that the incident is cleared
State Patrol Dispatch Center			

Destination Component	Data Flow Name	Definition	Source Component
Centralized Control Signal Center(s)	Link Reference Model	consists of a commonly defined set of point, linear, and area geographical locations, such as roadway links, which ITS systems use to share geographical information between themselves.	External Information Source(s)
			User Interface Equipment
			Demand Responsive Transit Center(s)
			Demand Responsive Transit Center(s)
			Division of Emergency Management Center
			Freeway Traffic Management Center
			Incident Dispatch Center(s)
			Other Transit Management Center(s)
			Other Transit Management Center(s)
			Regional ITS Management Center
			Regional ITS Management Center
			Regional ITS Management Center
			State Patrol Dispatch Center
Transit Service Provider(s)			
Planned Event Information	consists of information about construction and/or special events (e.g. sporting events, parades)		Centralized Control Signal Center(s)
			External Information Source(s)
			Maintenance Dispatch Center
Road Surface Conditions	consists of current and/or forecast road conditions such as dry, wet, flooded, snow covered, slippery, plowed, salted, sanded (based on road surface surveillance data and weather forecasts).		Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)

Destination Component	Data Flow Name	Definition	Source Component
Centralized Control Signal Center(s)	Road Surface Conditions	consists of current and/or forecast road conditions such as dry, wet, flooded, snow covered, slippery, plowed, salted, sanded (based on road surface surveillance data and weather forecasts).	Demand Responsive Transit Center(s)
			External Information Source(s)
			Freeway Traffic Management Center
			Inter-Jurisdictional Traffic System
			Maintenance Dispatch Center
			Other Transit Management Center(s)
			Regional ITS Management Center
			Road Weather Information Center
			State Patrol Dispatch Center
			Truck Center
Road Surface Data	Road Surface Surveillance Data	consists of road surface information that is created for describing the road surface conditions of a pre-determined location. (e.g. condition of the road surface (wet, snow packed,slippery,bumpy,pot holes), road surface temperature, timestamp & location)	User Interface Equipment
			Centralized Roadside Equipment
			Centralized Control Signal Center(s)
			Centralized Roadside Equipment
			Decentralized Control Signal Center(s)
			Freeway Traffic Management Center
			Road Weather Information Center
			Tailored Traveler Information Provider(s)
			Tailored Traveler Information Provider(s)

Destination Component	Data Flow Name	Definition	Source Component
Centralized Control Signal Center(s)	Signal Pre-emption Request	is a request from emergency vehicle(s) for immediate pre-emption of intersection traffic signals. An emergency pre-emption request interrupts traffic signal timing plans to accommodate safe passage of the emergency vehicles.	Decentralized Control Signal Center(s)
			Division of Emergency Management Center
			Freeway Traffic Management Center
			Incident Dispatch Center(s)
			Incident Dispatch Center(s)
			Inter-Jurisdictional Incident Management System
			Maintenance Dispatch Center
			Regional ITS Management system
			State Patrol Dispatch Center
			State Patrol Dispatch Center
Signal Priority Request	is a request to pre-empt intersection traffic signals. This request enables transit vehicles to return to schedule adherence & is lower in priority than an emergency vehicle signal pre-emption request.		Demand Responsive Transit Center(s)
			Other Transit Management Center(s)
			Regional ITS Management Center
			Regional ITS Management Center
Traffic Conditions	consists of information about flow of traffic for a pre-determined reporting area.		Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Freeway Traffic Management Center
			Freeway Traffic Management Center
			Inter-Jurisdictional Traffic system
			Inter-Jurisdictional Traffic system
			Inter-Jurisdictional Traffic system

Destination Component	Data Flow Name	Definition	Source Component
Centralized Control Signal Center(s)	Traffic Conditions	consists of information about flow of traffic for a pre-determined reporting area.	Maintenance Dispatch Center
	Traffic Control Requirements	consists of specific traffic requirements that affect a traffic segment within a particular geographic area. (e.g. quitting time of a large business along a specific roadway.)	External Information Source(s)
			Other Transit Management Center(s)
			Other Transit Management Center(s)
			Regional ITS Management Center
			Regional ITS Management Center
	Traffic Data	consists of traffic related information that is created for describing the traffic conditions of a pre-determined location. (e.g. speed, vehicle quantity,density,time stamp, & location of where the data is generated).	Centralized Roadside Equipment
			User Interface Equipment
	Traffic Surveillance Data	consists of processed and summarized information about- vehicles or incidents that may effect the travel of drivers within a pre-defined geographic location. (e.g. speed, vehicle quantity, road density, time stamp, and location of where data is generated.	Centralized Control Signal Center(s)
			Centralized Roadside Equipment
			Centralized Roadside Equipment
			Decentralized Control Signal Center(s)
			Freeway Traffic Management Center
			Tailored Traveler Information Provider(s)
Travel Conditions Request	is a request for travel conditions information. It can consist of a request for all basic travel conditions info or for travel conditions info. tailored to the user's specific needs (e.g.route, mode, jurisdiction)	User Interface Equipment	
Travel Conditions- 1	consists of current/forecast information about traffic conditions, planned event information, incident conditions (e.g., accidents), transit conditions, road surface conditions, parking conditions (continued)	Centralized Control Signal Center(s)	
		Tailored Traveler Information Provider(s)	
		Tailored Traveler Information Provider(s)	

Destination Component	Data Flow Name	Definition	Source Component
Centralized Control Signal Center(s)	Travel Conditions-2	(continued) and weather that is customized to a user's specified trip and mode(s).	Centralized Control Signal Center(s)
			Tailored Traveler Information Provider(s)
	Vehicle Assignments	consists of assignment of vehicles to facilities jurisdictions, personnel, incidents, maintenance, training or available.	Tailored Traveler Information Provider(s)
			Demand Responsive Transit Center(s)
			Demand Responsive Transit Center(s)
			Division of Emergency Management Center
			Freeway Traffic Management Center
			Incident Dispatch Center(s)
			Other Transit Management Center(s)
			Other Transit Management Center(s)
			Regional ITS Management Center
			Regional ITS Management Center
			Regional ITS Management Center
			State Patrol Dispatch Center
Transit Service Provider(s)			
Vehicle Location	consists of information that indicates the location of each vehicle.	Demand Responsive Transit Center(s)	
		Demand Responsive Transit Center(s)	
		Division of Emergency Management Center	
		Freeway Traffic Management Center	
		Incident Dispatch Center(s)	
		Other Transit Management Center(s)	
		Regional ITS Management Center	
		Regional ITS Management Center	
		Regional ITS Management Center	

Destination Component	Data Flow Name	Definition	Source Component	
Centralized Control Signal Center(s)	Vehicle Location	consists of information that indicates the location of each vehicle.	State Patrol Dispatch Center Transit Service Provider(s)	
	Weather Conditions	consists of current and/or forecast weather conditions such as rain, snow, fog, sunny, clear.	Centralized Control Signal Center(s) External Information Source(s) External Information Source(s) External Information Source(s) Road Weather Information Center	
	Weather Surveillance Data	consists of current weather data as received from devices (e.g. radar, video).	Centralized Control Signal Center(s) Centralized Roadside Equipment Decentralized Control Signal Center(s) Freeway Traffic Management Center Road Weather Information Center Tailored Traveler Information Provider(s)	
	Centralized Roadside Equipment	Incident Acknowledgement	consists of notification to the reporting source of the incident that incident data has been received and/or incident resources have been dispatched.	Centralized Control Signal Center(s)
		Manual Override	consists of the system users who have the authority to override the traffic system for maintenance, unplanned traffic timing plans, or incidents.	User Interface Equipment
		Signal Pre-emption Request	is a request from emergency vehicle(s) for immediate pre-emption of intersection traffic signals. An emergency pre-emption request interrupts traffic signal timing plans to accommodate safe passage of the emergency vehicles.	Emergency Vehicle
				Emergency Vehicle
				Emergency Vehicle
		Signal Priority Request	is a request to pre-empt intersection traffic signals. This request enables transit vehicles to return to schedule adherence & is lower in priority than an emergency vehicle signal pre-emption request.	Transit Vehicle
	Transit Vehicle			

Destination Component	Data Flow Name	Definition	Source Component
Centralized Roadside Equipment	Signal Priority Request	is a request to pre-empt intersection traffic signals. This request enables transit vehicles to return to schedule adherence & is lower in priority than an emergency vehicle signal pre-emption request.	Transit Vehicle
	Signal Timing Plan	consists of the implemented traffic control strategy in the form of a timing algorithm (cycle split, offset, etc)	Centralized Control Signal Center(s)
	Signing Plan	consists of information messages and under what conditions which signs may be used to provide driver notification for unplanned traffic or road conditions.	Centralized Control Signal Center(s)
			Inter-Jurisdictional Traffic System
	Traffic Data	consists of traffic related information that is created for describing the traffic conditions of a pre-determined location. (e.g. speed, vehicle quantity,density,time stamp, & location of where the data is generated).	Probe Vehicle
			User Interface Equipment
	Traffic Surveillance Control	consists of control information for operating traffic signal systems	Centralized Control Signal Center(s)
			Inter-Jurisdictional Traffic system
	Travel Conditions-1	consists of current/forecast information about traffic conditions, planned event information, incident conditions (e.g., accidents), transit conditions, road surface conditions, parking conditions (continued)	Centralized Control Signal Center(s)
	Travel Conditions-2	(continued) and weather that is customized to a user's specified trip and mode(s).	Centralized Control Signal Center(s)
Decentralized Control Signal Center(s)	Incident Acknowledgement	consists of notification to the reporting source of the incident that incident data has been received and/or incident resources have been dispatched.	Demand Responsive Transit Center(s)
			Division of Emergency Management Center
			Freeway Traffic Management Center
			Incident Dispatch Center(s)
			Incident Dispatch Center(s)
			Inter-Jurisdictional Incident Management System

Destination Component	Data Flow Name	Definition	Source Component	
Decentralized Control Signal Center(s)	Incident Acknowledgement	consists of notification to the reporting source of the incident that incident data has been received and/or incident resources have been dispatched.	Maintenance Dispatch Center	
			Other Transit Management Center(s)	
			Regional ITS Management Center	
			Regional ITS Management system	
			State Patrol Dispatch Center	
				State Patrol Dispatch Center
	Incident Conditions	consists of stored information applicable to an active incident that has impact on current travel conditions		Decentralized Control Signal Center(s)
				Incident Dispatch Center(s)
				State Patrol Dispatch Center
				State Patrol Dispatch Center
User Interface Equipment				
Incident Data	consists of information that is collected about an incident but may not be organized or stored in a repository. (e.g. incident location, type of incident and timestamp)		Demand Responsive Transit Center (s)	
			Division of Emergency Management Center	
			Freeway Traffic Management Center	
			Incident Dispatch Center(s)	
			Inter-Jurisdictional Incident Management System	
			Maintenance Dispatch Center	
			Other Transit Management Center(s)	
			Regional ITS Management Center	
			State Patrol Dispatch Center	
			User Interface Equipment	
Incident Response status	consists of ETAS of responding resources, current step of response procedure, and estimated time that the incident is cleared		Incident Dispatch Center(s)	

Destination Component	Data Flow Name	Definition	Source Component	
Decentralized Control Signal Center(s)	Incident Response status	consists of ETAS of responding resources, current step of response procedure, and estimated time that the incident is cleared	State Patrol Dispatch Center	
	Link Reference Model	consists of a commonly defined set of point, linear, and area geographical locations, such as roadway links, which ITS systems use to share geographical information between themselves.	External Information Source(s)	
	Manual Override	consists of the system users who have the authority to override the traffic system for maintenance, unplanned traffic timing plans, or incidents.	User Interface Equipment	
	Personnel Assignments			Demand Responsive Transit Center(s)
				Demand Responsive Transit Center(s)
				Division of Emergency Management Center
				Freeway Traffic Management Center
				Incident Dispatch Center(s)
				Other Transit Management Center(s)
				Other Transit Management Center(s)
				Regional ITS Management Center
				Regional ITS Management Center
				Regional ITS Management Center
				State Patrol Dispatch Center
			Transit Service Provider(s)	
Planned Event Information			Decentralized Control Signal Center(s)	
			External Information Source(s)	
			Maintenance Dispatch Center	
			User Interface Equipment	
Road Surface Conditions		consists of current and/or forecast road conditions such as dry, wet, flooded, snow covered, slippery, plowed, salted, sanded (based on road surface surveillance data and weather forecasts).	Centralized Control Signal Center(s)	

Destination Component	Data Flow Name	Definition	Source Component
Decentralized Control Signal Center(s)	Road Surface Conditions	consists of current and/or forecast road conditions such as dry, wet, flooded, snow covered, slippery, plowed, salted, sanded (based on road surface surveillance data and weather forecasts).	Decentralized Control Signal Center(s)
			Demand Responsive Transit Center(s)
			External Information Source(s)
			Freeway Traffic Management Center
			Inter-Jurisdictional Traffic System
			Maintenance Dispatch Center
			Other Transit Management Center(s)
			Regional ITS Management Center
			Road Weather Information Center
			State Patrol Dispatch Center
			Truck Center
			User Interface Equipment
			Road Surface Data
Road Surface Surveillance Data	consists of processed and summarized information that is created for describing the road surface conditions of a pre-determined location. (e.g. condition of road surface, road surface temperature, timestamp, & location)	Decentralized Roadside Equipment	
		Centralized Control Signal Center(s)	
		Decentralized Control Signal Center(s)	
		Decentralized Roadside Equipment	
		Freeway Traffic Management Center	
		Road Weather Information Center	
		Tailored Traveler Information Provider(s)	

Destination Component	Data Flow Name	Definition	Source Component
Decentralized Control Signal Center(s)	Road Surface Surveillance Data	consists of processed and summarized information that is created for describing the road surface conditions of a pre-determined location. (e.g. condition of road surface, road surface temperature, timestamp, & location)	Tailored Traveler Information Provider(s)
	Signal Pre-emption Request	is a request from emergency vehicle(s) for immediate pre-emption of intersection traffic signals. An emergency pre-emption request interrupts traffic signal timing plans to accommodate safe passage of the emergency vehicles.	Centralized Control Signal Center(s)
			Division of Emergency Management Center
			Freeway traffic Management Center
			Incident Dispatch Center(s)
			Incident Dispatch Center(s)
			Inter-Jurisdictional Incident Management system
			Maintenance Dispatch Center
			Regional ITS Management system
			State Patrol Dispatch Center
			State Patrol Dispatch Center
	Signal Priority Request	is a request to pre-empt intersection traffic signals. This request enables transit vehicles to return to schedule adherence & is lower in priority than an emergency vehicle signal pre-emption request.	Demand Responsive Transit Center(s)
			Other Transit Management Center(s)
			Regional ITS Management Center
		Regional ITS Management Center	
Traffic Conditions	consists of information about flow of traffic for a pre-determined reporting area.	Centralized Control Signal Center(s)	
		Centralized Control Signal Center(s)	
		Decentralized Control Signal Center(s)	
		Freeway Traffic Management Center	
		Freeway Traffic Management Center	

Destination Component	Data Flow Name	Definition	Source Component
Decentralized Control Signal Center(s)	Traffic Conditions	consists of information about flow of traffic for a pre-determined reporting area.	Inter-Jurisdictional Traffic system
			Inter-Jurisdictional Traffic system
			Maintenance Dispatch Center
			External Information Source(s)
			Other Transit Management Center(s)
			Other Transit Management Center@)
Traffic Control Requirements	consists of specific traffic requirements that affect a traffic segment within a particular geographic area. (e.g. quitting time of a large business along a specific roadway.)		Regional ITS Management Center
			Regional ITS Management Center
			Decentralized Roadside Equipment
			Decentralized Roadside Equipment
Traffic Data	consists of traffic related information that is created for describing the traffic conditions of a pre-determined location. (e.g. speed, vehicle quantity,density,time stamp, & location of where the data is generated).		User Interface Equipment
			Decentralized Control Signal Center(s)
			Decentralized Roadside Equipment
			Decentralized Roadside Equipment
			Decentralized Roadside Equipment
Traffic Surveillance Data	consists of processed and summarized information about vehicles or incidents that may effect the travel of drivers within a pre-defined geographic location. (e.g. speed, vehicle quantity, road density, time stamp, and location of where data is generated.		Freeway Traffic Management Center
			Tailored Traveler Information Provider(s)
			Decentralized Control Signal Center(s)
			Decentralized Roadside Equipment
			Decentralized Roadside Equipment
			Decentralized Roadside Equipment
Travel Conditions Request	is a request for travel conditions information. It can consist of a request for all basic travel conditions info or for travel conditions info. tailored to the user's specifics needs (e.g.route, mode,jurisdiction)		User Interface Equipment

Destination Component	Data Flow Name	Definition	Source Component
Decentralized Control Signal Center(s)	Travel Conditions- 1	consists of current/forecast information about traffic conditions, planned event information, incident conditions (e.g., accidents), transit conditions, road surface conditions, parking conditions (continued)	Decentralized Control Signal Center(s)
			Tailored Traveler Information Provider(s)
			Tailored Traveler Information Provider(s)
	Travel Conditions-2	(continued) and weather that is customized to a user's specified trip and mode(s).	Decentralized Control Signal Center(s)
			Tailored Traveler Information Provider(s)
			Tailored Traveler Information Provider(s)
	Vehicle Assignments	consists of assignment of vehicles to facilities jurisdictions, personnel, incidents, maintenance, training or available.	Demand Responsive Transit Center(s)
			Demand Responsive Transit Center(s)
			Division of Emergency Management Center
			Freeway Traffic Management Center
			Incident Dispatch Center(s)
			Other Transit Management Center(s)
			Other Transit Management Center(s)
			Regional ITS Management Center
Regional ITS Management Center			
Regional ITS Management Center			
State Patrol Dispatch Center			
Transit Service Provider(s)			
Vehicle Location	consists of information that indicates the location of each vehicle.	Demand Responsive Transit Center(s)	
		Demand Responsive Transit Center(s)	
		Division of Emergency Management Center	
		Freeway Traffic Management Center	
		Incident Dispatch Center(s)	

Destination Component	Data Flow Name	Definition	Source Component
Decentralized Control Signal Center(s)	Vehicle Location	consists of information that indicates the location of each vehicle.	Other Transit Management Center(s)
			Regional ITS Management Center
			Regional ITS Management Center
			State Patrol Dispatch Center
			Transit Service Provider(s)
	Weather Conditions	consists of current and/or forecast weather conditions such as rain, snow, fog, sunny, clear.	Decentralized Control Signal Center(s)
			External Information Some(s)
			External Information Source(s)
			External Information Source(s)
			Road Weather Information Center
Weather Surveillance Data (e.g. radar, video).	consists of current weather data as received from devices (e.g. radar, video).	Centralized Control Signal Center(s)	
		Decentralized Control Signal Center(s)	
		Decentralized Roadside Equipment	
		Freeway Traffic Management Center	
		Road Weather Information Center	
Decentralized Roadside Equipment	Incident Acknowledgement	consists of notification to the reporting source of the incident that incident data has been received and/or incident resources have been dispatched.	Decentralized Control Signal Center(s)
	Manual Override	consists of the system users who have the authority to override the traffic system for maintenance, unplanned traffic timing plans, or incidents.	User Interface Equipment
	Road Surface Data	consists of road surface information that is created for describing the road surface conditions of a pre-determined location. (e.g. condition of the road surface (wet, snow packed, slippery, bumpy, pot holes), road surface temperature, timestamp & location)	Decentralized Roadside Equipment

Destination Component	Data Flow Name	Definition	Source Component
Decentralized Roadside Equipment	Signal Pre-emption Request	is a request from emergency vehicle(s) for immediate pre-emption of intersection traffic signals. An emergency pre-emption request interrupts traffic signal timing plans to accommodate safe passage of the emergency vehicles.	Emergency Vehicle
			Emergency Vehicle
	Signal Priority Request	is a request to pre-empt intersection traffic signals. This request enables transit vehicles to return to schedule adherence & is lower in priority than an emergency vehicle signal pre-emption request.	Transit Vehicle
			Transit Vehicle
			Transit Vehicle
	Signal Timing Plan	consists of the implemented traffic control strategy in the form of a timing algorithm (cycle split, offset, etc)	Decentralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Decentralized Roadside Equipment
	Signing Plan	consists of information messages and under what conditions which signs may be used to provide driver notification for unplanned traffic or road conditions.	Decentralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Decentralized Roadside Equipment
	Traffic Data	consists of traffic related information that is created for describing the traffic conditions of a pre-determined location. (e.g. speed, vehicle quantity,density,time stamp, & location of where the data is generated).	Decentralized Roadside Equipment
			Probe Vehicle
			Probe Vehicle
			User Interface Equipment
Traffic Surveillance Control	consists of control information for operating traffic signal systems	Decentralized Control Signal Center(s)	
		Decentralized Control Signal Center(s)	
		Decentralized Roadside Equipment	
Traffic Surveillance Data	consists of processed and summarized information about vehicles or incidents that may effect the travel of drivers within a pre-defined geographic location. (e.g. speed, vehicle quantity, road density, time stamp, and location of where data is generated.	Decentralized Roadside Equipment	

Destination Component	Data Flow Name	Definition	Source Component
Decentralized Roadside Equipment	Travel Conditions- 1	consists of current/forecast information about traffic conditions, planned event information, incident conditions (e.g., accidents), transit conditions, road surface conditions, parking conditions (continued)	Decentralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
	Travel Conditions-2	(continued) and weather that is customized to a user's - specified trip and mode(s).	Decentralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
Demand Responsive Transit Center(s)	Account Validation Notice	consists of a confirmation that a user's bank account or credit card number is correct and valid.	Financial Institution(s)
	Account Validation Request	consists of a request to determine the validity of a user's bank account or credit card number.	Transit Vehicle
	Activation/ Deactivation Request	consists of a request for activation/deactivation of an entire ATIS service or a rideshare provider profile	Transit Service Provider(s)
			User Interface Equipment
	Authorized User List	consists of a list of authorized users for the specified service.	Account Management Provider(s)
	Demand Responsive Response	provides a response to demand responsive request. This data indicates whether the vehicle driver confirms or denies a real-time demand responsive ride request.	Transit Service Provider(s)
			Transit Vehicle
	Detour Request	is a request to provide an alternate route between two transit stops.	Transit Vehicle
			Transit Vehicle
	Detour Route	consists of an alternate route between an origin and destination. Used to route a vehicle around incidents/congestion, or to route a rideshare vehicle to pick up an additional customer.	Tailored Traveler Information Provider(s)
Equipment status		consists of the accumulated hours of usage and operator reported problems	Emergency Vehicle
			Transit Vehicle
Incident Acknowledgement		consists of notification to the reporting source of the incident that incident data has been received and/or incident resources have been dispatched.	Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Division of Emergency Management Center
			Freeway Traffic Management Center

Destination Component	Data Flow Name	Definition	Source Component
Demand Responsive Transit Center(s)	Incident Acknowledgment	consists of notification to the reporting source of the incident that incident data has been received and/or incident resources have been dispatched.	Incident Dispatch Center(s)
			Inter-Jurisdictional Incident Management System
			Maintenance Dispatch Center
			Regional ITS Management System
Incident Conditions	consists of stored information applicable to an active incident that has impact on current travel conditions		State Patrol Dispatch Center
			Demand Responsive Transit Center(s)
			Emergency Vehicle
			State Patrol Dispatch Center
Incident Data	consists of information that is collected about an incident but may not be organized or stored in a repository. (e.g. incident location, type of incident and timestamp)		Transit Vehicle
			Broadcast Information Provider(s)
			Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Division of Emergency Management Center
			Emergency Vehicle
			External Information Source(s)
			Freeway Traffic Management Center
			Incident Dispatch Center(s)
			Inter-Jurisdictional Incident Management system
			Maintenance Dispatch Center
			Mayday Service Provider(s)
Regional ITS Management System			
State Patrol Dispatch Center			
Transit Vehicle			

Destination Component	Data Flow Name	Definition	Source Component
Demand Responsive Transit Center(s)	Incident Data	consists of information that is collected about an incident but may not be organized or stored in a repository. (e.g. incident location, type of incident and timestamp)	User Interface Equipment
	Incident Response status	consists of ETAS of responding resources, current step of response procedure, and estimated time that the incident is cleared	Emergency Vehicle
			Transit Vehicle
Link Reference Model	consists of a commonly defined set of point, linear, and area geographical locations, such as roadway links, which ITS systems use to share geographical information between themselves.	External Information Source(s)	
		External Information Source(s)	
		External Information Source(s)	
Maintenance Completion	consists of status information pertaining to the maintenance recently performed on the vehicle.	Transit Maintenance Garage	
Maintenance Request	consists of request for preventive or on-demand maintenance on vehicles or equipment based on reported conditions, mileage, or hours of service.	Transit Maintenance Garage	
Mode Use Information	consists of information on how to use a specific transit mode (e.g. bus, train, etc.) such as rules for use, hours of operation, payment methods, etc.	Regional ITS Management system	
Personnel Assignments	consists of driver-to-run, driver-to-incident, supervisor-to-incident, maintenance personnel-to-incident, driver-to-training, and supervisor-to-training assignments.	Other Transit Management Center(s)	
		Regional ITS Management Center	
Planned Event Information	consists of information about construction and/or special events (e.g. sporting events, parades)	Demand Responsive Transit Center(s)	
		External Information Source(s)	
		Maintenance Dispatch Center	
		User Interface Equipment	
Pricing Requirements	consists of requirements for pricing transportation services.	Demand Responsive Transit Center(s)	
		Other Public Agencies	
		Other Transit Management Center(s)	
		Regional ITS Management Center	
		Transit Service Provider(s)	
		User Interface Equipment	

Destination Component	Data Flow Name	Definition	Source Component
Demand Responsive Transit Center(s)	Provider Profile	consists of information specific to a rideshare provider that uniquely identifies that provider and the services they provide. This data includes vehicle license plate number, vehicle make, vehicle color, driver ID, safety certification information	Transit Service Provider(s)
	Provider Validation Notice	consists of a confirmation that a provider's profile information is correct and valid.	External Information Source(s)
	Resource Location	consist of the location of vehicles, equipment and personnel	Emergency Vehicle Transit Vehicle
	Resource Request	consists of a request to provide personnel, vehicles, and equipment to an incident.	Centralized Control Signal Center(s) Centralized Control Signal Center(s) Decentralized Control Signal Center(s) Decentralized Control Signal Center(s) Division of Emergency Management Center Division of Emergency Management Center Emergency Vehicle External Information Source(s) External Information Source(s) Freeway Traffic Management Center Freeway Traffic Management Center Incident Dispatch Center(s) Incident Dispatch Center(s) Inter-Jurisdictional Incident Management system Inter-Jurisdictional Incident Management System State Patrol Dispatch Center State Patrol Dispatch Center Transit Vehicle

Destination Component	Data Flow Name	Definition	Source Component
Demand Responsive Transit Center(s)	Rideshare Completions	consists of an indication that a passenger completed a trip.	Transit Vehicle
			User Interface Equipment
	Rideshare Offer	consists of response to rideshare request. Includes trip itinerary, trip origin, destination and frequency, drop-off and pick-up times.	Transit Service Provider(s)
			User Interface Equipment
	Rideshare Request	consists of data used to specify a specific trip itinerary, & to reserve or cancel a seat on a vehicle. Includes reservation request, cancellation request, rider ID & constraints, trip origination, destination & frequency, drop-off and pick-up times	User Interface Equipment
	Road Surface Conditions	consists of current and/or forecast road conditions such as dry, wet, flooded, snow covered, slippery, plowed, salted, sanded (based on road surface surveillance data and weather forecasts).	Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Demand Responsive Transit Center(s)
			External Information Source(s)
			Freeway Traffic Management Center
		Inter-Jurisdictional Traffic System	
		Maintenance Dispatch Center	
		Other Transit Management Center(s)	
		Regional ITS Management Center	
		Road Weather Information Center	
		State Patrol Dispatch Center	
		Transit Service Provider(s)	
		Truck Center	
Road Surface Surveillance Data	consists of processed and summarized information that is created for describing the road surface conditions of a pre-determined location. (e.g. condition of road surface, road surface temperature, timestamp, & location)	Centralized Control Signal Center(s)	
		Decentralized Control Signal Center(s)	

Destination Component	Data Flow Name	Definition	Source Component
Demand Responsive Transit Center(s)	Road Surface Surveillance Data	consists of processed and summarized information that is created for describing the road surface conditions of a pre-determined location. (e.g. condition of road surface, road surface temperature, timestamp, & location)	Freeway Traffic Management Center
			Tailored Traveler Information Provider(s)
	Schedule Adherence Information	consists of information describing fleet schedule adherence - indicating route segment running time, transit stop arrival time and transit stop departure time.	Other Transit Management Center(s)
			Regional ITS Management Center
			Regional ITS Management Center
			Transit Service Provider(s)
	Service Payment	consists of payments for parking, tolls, transit fares, traveler information services.	Financial Institution(s)
			Transit Vehicle
	Service Usage Data 1	consists of data required to generate a user's service invoice for services rendered as well as overall transit resource statistics, including trip origin and destination, departure and arrival time, vehicle % full at stop, (continued)	Transit Service Provider(s)
			Transit Vehicle
Service Usage Data 2	(continued) number of passengers entering and exiting vehicle at stop, payment method, fare type, vehicle dwell time at stop, and wheel chair lift use at stop.	Transit Service Provider(s)	
		Transit Vehicle	
Signal Pre-emption Request	is a request from emergency vehicle(s) for immediate pre-emption of intersection traffic signals. An emergency pre-emption request interrupts traffic signal timing plans to accommodate safe passage of the emergency vehicles.	Emergency Vehicle	
Signal Priority Request	is a request to pre-empt intersection traffic signals. This request enables transit vehicles to return to schedule adherence & is lower in priority than an emergency vehicle signal pre-emption request.	Transit Vehicle	
Traffic Conditions	consists of information about flow of traffic for a pre-determined reporting area.	Centralized Control Signal Center(s)	
		Decentralized Control Signal Center (s)	
		Demand Responsive Transit Center(s)	
		Freeway Traffic Management Center	
		Inter-Jurisdictional Traffic system	

Destination Component	Data Flow Name	Definition	Source Component
Demand Responsive Transit Center(s)	Traffic Surveillance Data	consists of processed and summarized information about vehicles or incidents that may effect the travel of drivers within a pre-defined geographic location. (e.g. speed, vehicle quantity, road density, time stamp, and location of where data is generated.	Centralized Control Signal Center (s)
			Decentralized Control Signal Center(s)
			Freeway Traffic Management Center
			Tailored Traveler Information Provider(s)
	Training Completion	consists of identification of transit resources that have completed identified training.	Training Center
	Training Request	consists of a notice that particular resources are scheduled to attend a particular training activity.	Training Center
	Transfer Delay Request	consists of an inter-agency request to &lay departure of a connecting vehicle to assist transfer when the originating vehicle is late.	Inter-Jurisdictional Transit system
			Inter-Jurisdictional Transit system
			Regional ITS Management Center
	Transit Conditions	consists of information about transit vehicle schedule adherence, rideshare data, and transit provider information including but not limited to vehicle ID, transit stop, estimated vehicle arrival time, estimated vehicle departure time, current schedule.	Regional ITS Management Center
Regional ITS Management Center			
Regional ITS Management Center			
Demand Responsive Transit Center(s)			
Other Transit Management Center(s)			
Regional ITS Management Center			
Transit Service Provider(s)			
Transit Route	consists of Fixed Routes and Flexible Routes information.	Other Transit Management Center(s)	
		Regional ITS Management Center	
		Regional ITS Management Center	
Transit Route Schedule	consists of arrival/departure times for each transit stop location along each transit route as well as transfer information	Other Transit Management Center(s)	

Destination Component	Data Flow Name	Definition	Source Component
Demand Responsive Transit Center(s)	Transit Route Schedule	consists of arrival/departure times for each transit stop location along each transit route as well as transfer information.	Regional ITS Management Center
			Regional ITS Management Center
	Travel Conditions-1	consists of current/forecast information about traffic conditions, planned event information, incident conditions (e.g., accidents), transit conditions, road surface conditions, parking conditions (continued)	Demand Responsive Transit Center(s)
			Tailored Traveler Information Provider(s)
			Tailored Traveler Information Provider(s)
	Travel Conditions-2	(continued) and weather that is customized to a user's specified trip and mode(s).	Demand Responsive Transit Center(s)
			Tailored Traveler Information Provider(s)
			Tailored Traveler Information Provider(s)
			Tailored Traveler Information Provider(s)
	User Profile	consists of information specific to a user that uniquely identifies that user and their travel information preferences.	Account Management Provider(s)
User Interface Equipment			
Vehicle Assignments	consists of assignment of vehicles to facilities jurisdictions, personnel, incidents, maintenance, training or available.	Other Transit Management Center(s)	
		Regional ITS Management Center	
Vehicle Location	consists of information that indicates the location of each vehicle.	Other Transit Management Center(s)	
		Regional ITS Management Center	
		Transit Vehicle	
Vehicle Parameters	consists of raw (i.e. unsensed) environmental conditions associated with the vehicle (e.g. engine temp, door open/closed, vehicle position, velocity, acceleration, etc.).	Transit Vehicle	
Weather Conditions	consists of current and/or forecast weather conditions such as rain, snow, fog, sunny clear.	Demand Responsive Transit Center(s)	
		External Information Source(s)	
		Road Weather Information Center	

Destination Component	Data Flow Name	Definition	Source Component		
Demand Responsive Transit Center(s)	Weather Surveillance Data	consists of current weather data as received from devices (e.g. radar, video).	Centralized Control Signal Center(s)		
			Decentralized Control Signal Center(s)		
			Freeway Traffic Management Center		
			Tailored Traveler Information Provider(s)		
Division of Emergency Management Center	Incident Acknowledgment	consists of notification to the reporting source of the incident that incident data has been received and/or incident resources have been dispatched.	Centralized Control Signal Center(s)		
			Decentralized Control Signal Center(s)		
			Demand Responsive Transit Center(s)		
			Freeway Traffic Management Center		
			Incident Dispatch Center(s)		
			Inter-Jurisdictional Incident Management system		
			Maintenance Dispatch Center		
			Other Transit Management Center(s)		
			Regional ITS Management Center		
			Regional ITS Management system		
			State Patrol Dispatch Center		
			Incident Data	consists of information that is collected about an incident but may not be organized or stored in a repository. (e.g. incident location, type of incident and timestamp)	Broadcast Information Provider(s)
					Centralized Control Signal Center(s)
		Decentralized Control Signal Center(s)			
		Demand Responsive Transit Center(s)			
		External Information Source(s)			

Destination Component	Data Flow Name	Definition	Source Component
Division of Emergency Management Center	Incident Data	consists of information that is collected about an incident but may not be organized or stored in a repository. (e.g. incident location, type of incident and timestamp)	Freeway Traffic Management Center
			Incident Dispatch Center(s)
			Inter-Jurisdictional Incident Management System
			Maintenance Dispatch Center
			Mayday Service Provider(s)
			Other Transit Management Center(s)
			Regional ITS Management Center
			Regional ITS Management system
			State Patrol Dispatch Center
			User Interface Equipment
Link Reference Model	consists of a commonly defined set of point, linear, and area geographical locations, such as roadway links, which ITS systems use to share geographical information between themselves.	External Information Source(s)	
Personnel Assignments	consists of driver-to-run, driver-to-incident, supervisor-to-incident, maintenance personnel-to-incident, driver-to-training, and supervisor-to-training assignments.	Demand Responsive Transit Center(s)	
		Demand Responsive Transit Center(s)	
		Division of Emergency Management Center	
		Freeway Traffic Management Center	
		Incident Dispatch Center(s)	
		Other Transit Management Center(s)	
		Other Transit Management Center(s)	
		Regional ITS Management Center	
		Regional ITS Management Center	
		Regional ITS Management Center	

Destination Component	Data Flow Name	Definition	Source Component
Division of Emergency Management Center	Personnel Assignments	consists of driver-to-run, driver-to-incident, supervisor-to-incident, maintenance personnel-to-incident, driver-to-training, and supervisor-to-training assignments.	State Patrol Dispatch Center
			Transit Service Provider(s)
	Resource Request	consists of a request to provide personnel, vehicles, and equipment to an incident.	Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			External Information Source(s)
			Freeway Traffic Management Center
			Incident Dispatch Center(s)
			Inter-Jurisdictional Incident Management System
			Other Transit Management Center(s)
			Regional ITS Management Center
			State Patrol Dispatch Center
			Vehicle Assignments
	Demand Responsive Transit Center(s)		
	Division of Emergency Management Center		
	Freeway Traffic Management Center		
	Incident Dispatch Center(s)		
	Other Transit Management Center(s)		
	Other Transit Management Center(s)		
	Regional ITS Management Center		
Regional ITS Management Center			
Regional ITS Management Center			
State Patrol Dispatch Center			

Destination Component	Data Flow Name	Definition	Source Component
Division of Emergency Management Center	Vehicle Assignments	consists of assignment of vehicles to facilities, jurisdictions, personnel, incidents, maintenance, training or available.	Transit Service Provider(s)
	Vehicle Location	consists of information that indicates the location of each vehicle.	Demand Responsive Transit Center(s)
			Demand Responsive Transit Center(s)
			Division of Emergency Management Center
			Freeway Traffic Management Center
			Incident Dispatch Center(s)
			Other Transit Management Center(s)
			Regional ITS Management Center
			Regional ITS Management Center
			State Patrol Dispatch Center
		Transit Service Provider(s)	
Emergency Vehicle	Equipment Assignments	consists of the assignment of equipment to vehicles, facilities, personnel, incidents, maintenance, training	Demand Responsive Transit Center(s)
			Freeway Traffic Management Center
			Incident Dispatch Center(s)
			Incident Dispatch Center(s)
			Inter-Jurisdictional Incident Management system
			Inter-Jurisdictional Incident Management system
			Other Transit Management Center(s)
			Regional ITS Management Center
			State Patrol Dispatch Center
			Demand Responsive Transit Center(s)
	Estimated Time of Arrival	consists of the projected time that resources will arrive at the incident location.	Demand Responsive Transit Center(s)

Destination Component	Data Flow Name	Definition	Source Component
Emergency Vehicle	Estimated Time of Arrival	consists of the projected time that resources will arrive at the incident location.	Freeway Traffic Management Center
			Incident Dispatch Center(s)
			Inter-Jurisdictional Incident Management system
			Inter-Jurisdictional Incident Management System
			Other Transit Management Center(s)
			Regional ITS Management Center
			State Patrol Dispatch Center
Incident Acknowledgement	consists of notification to the reporting source of the incident that incident data has been received and/or incident resources have been dispatched.		Demand Responsive Transit Center(s)
			Freeway Traffic Management Center
			Incident Dispatch Center(s)
			Inter-Jurisdictional Incident Management system
			Inter-Jurisdictional Incident Management System
			Other Transit Management Center(s)
			Regional ITS Management Center
Incident Conditions	consists of stored information applicable to an active incident that has impact on current travel conditions		State Patrol Dispatch Center
			Demand Responsive Transit Center(s)
			Freeway Traffic Management Center
			Incident Dispatch Center(s)
			Inter-Jurisdictional Incident Management system
			Inter-Jurisdictional Incident Management System

Destination Component	Data Flow Name	Definition	Source Component
Emergency Vehicle	Incident Conditions	consists of stored information applicable to an active incident that has impact on current travel conditions	Other Transit Management Center(s)
			Regional ITS Management Center
			State Patrol Dispatch Center
			Demand Responsive Transit Center(s)
			Demand Responsive Transit Center(s)
			Freeway Traffic Management Center
			Incident Dispatch Center(s)
			Incident Dispatch Center(s)
			Inter-Jurisdictional Incident Management system
			Inter-Jurisdictional Incident Management System
	Personnel Assignments	consists of driver-to-mn, driver-to-incident, supervisor&-incident, maintenance personnel-to-incident, driver-to-training, and supervisor-to-training assignments.	Other Transit Management Center(s)
			Other Transit Management Center(s)
			Regional ITS Management Center
			Regional ITS Management Center
			Regional ITS Management Center
			State Patrol Dispatch Center
			Transit Service Provider(s)
			Demand Responsive Transit Center(s)
			Freeway Traffic Management Center
			Incident Dispatch Center(s)
Incident Dispatch Center(s)			
Inter-Jurisdictional Incident Management System			

Destination Component	Data Flow Name	Definition	Source Component
Emergency Vehicle	Response Routes	consists of routes that allow assigned incident resources to reach an incident location in a minimal amount of time	Inter-Jurisdictional Incident Management System
			Other Transit Management Center(s)
			Regional ITS Management Center
	Vehicle Assignments	consists of assignment of vehicles to facilities jurisdictions, personnel, incidents, maintenance, training or available.	State Patrol Dispatch Center
			Demand Responsive Transit Center(s)
			Demand Responsive Transit Center(s)
			Freeway Traffic Management Center
			Incident Dispatch Center(s)
			Incident Dispatch Center(s)
			Inter-Jurisdictional Incident Management system
			Inter-Jurisdictional Incident Management system
			Other Transit Management Center(s)
			Other Transit Management Center(s)
			Regional ITS Management Center
			Regional ITS Management Center
			Regional ITS Management Center
			State Patrol Dispatch Center
Transit Service Provider(s)			
Vehicle Location	consists of information that indicates the location of each vehicle.	Demand Responsive Transit Center(s)	
		Regional ITS Management Center	
		Transit Service Provider(s)	
External Information Source(s)	Estimated Time of Arrival	consists of the projected time that resources will arrive at the incident location.	Demand Responsive Transit Center(s)

Destination Component	Data Flow Name	Definition	Source Component
External Information Source(s)	Estimated Time of Arrival	consists of the projected time that resources will arrive at the incident location.	Division of Emergency Management Center
			Freeway Traffic Management Center
			Incident Dispatch Center(s)
			Inter-Jurisdictional Incident Management system
			Maintenance Dispatch Center
			Other Transit Management Center(s)
			Regional ITS Management center
			Regional ITS Management system
			State Patrol Dispatch center
			Demand Responsive Transit Center(s)
Incident Acknowledgement		consists of notification to the reporting source of the incident that incident data has been received and/or incident resources have been dispatched.	Division of Emergency Management Center
			Freeway Traffic Management Center
			Incident Dispatch Center(s)
			Inter-Jurisdictional Incident Management system
			Maintenance Dispatch Center
			Other Transit Management Center(s)
			Regional ITS Management Center
			Regional ITS Management System
			State Patrol Dispatch Center
			Demand Responsive Transit Center(s)
Personnel Assignments		consists of driver-to-run, driver-to-incident, supervisor-to-incident, maintenance personnel-to-incident, driver-to-training, and supervisor-to-training assignments.	Other Transit Management Center(s)

Destination Component	Data Flow Name	Definition	Source Component	
External Information Source(s)	Personnel Assignments	consists of driver-to-run, driver-to-incident, supervisor-to-incident, maintenance personnel-to-incident, driver-to-training, and supervisor-to-training assignments.	Other Transit Management Center(s)	
			Regional ITS Management Center	
			Regional ITS Management Center	
			Regional ITS Management Center	
				Transit Service Provider(s)
	Provider Validation Request	consists of a request to determine if the profile information given by the provider participating in the Ride Matching and Reservations Service is correct and true (e.g., drivers license, driver criminal history, moving violations, proper certifications).		Demand Responsive Transit Center(s)
				Regional ITS Management Center
				Ride&are Center
				Transit Service Provider(s)
	Reservation/Ticket Request	consists of a request to a provider for a ticket or a reservation.		Tailored Traveler Information Provider(s)
User Interface Equipment				
Vehicle Assignments	consists of assignment of vehicles to facilities jurisdictions, personnel, incidents, maintenance, training or available.		Demand Responsive Transit Center(s)	
			Other Transit Management Center(s)	
			Other Transit Management Center(s)	
			Regional ITS Management Center	
			Regional ITS Management Center	
			Regional ITS Management Center	
			Transit Service Provider(s)	
Vehicle Location	consists of information that indicates the location of each vehicle.		Demand Responsive Transit Center(s)	
			Other Transit Management Center(s)	
			Regional ITS Management Center	
			Regional ITS Management Center	

Destination Component	Data Flow Name	Definition	Source Component		
External Information Source(s)	Vehicle Location	consists of information that indicates the location of each vehicle.	Transit Service Provider(s)		
	Weather Source Data Request	is a request for weather data.	Centralized Control Signal Center(s)		
			Decentralized Control Signal Center(s)		
			Freeway Traffic Management Center		
			Inter-Jurisdictional Traffic System		
Maintenance Dispatch Center					
Financial Institution(s)	Account Validation Request	consists of a request to determine the validity of a user's bank account or credit card number.	Account Management Provider(s)		
			Demand Responsive Transit Center(s)		
			May&y Service Provider(s)		
			Other Transit Management Center(s)		
			Parking Management Center(s)		
			Regional ITS Management Center		
			Tailored Traveler Information Provider(s)		
			Toll Authority Center(s)		
			Transit Service Provider(s)		
			Payment Confirmation	consists of an acknowledgement that payment was received.	Account Management Provider(s)
					Demand Responsive Transit Center(s)
					May&y Service Provider(s)
					Other Transit Management Center(s)
					Parking Management Center(s)
	Regional ITS Management Center				
Toll Authority Center(s)					

Destination Component	Data Flow Name	Definition	Source Component
Financial Institution(s)	Payment Confirmation	consists of an acknowledgement that payment was received.	Transit Service Provider(s)
	Service Invoice	consists of a detailed list of services rendered and associated cost.	Account Management Provider(s)
			Demand Responsive Transit Center(s)
			Mayday Service Provider(s)
			Other Transit Management Center(s)
			Parking Management Center(s)
			Regional ITS Management Center
			Tailored Traveler Information Provider(s)
			Toll Authority Center(s)
		Transit Service Provider(s)	
Freeway Roadside Equipment	Equipment Assignments	consists of the assignment of equipment to vehicles, facilities, personnel, incidents, maintenance, training	Freeway Traffic Management Center
	Estimated Time of Arrival	consists of the projected time that resources will arrive at the incident location.	Freeway Traffic Management Center
	Incident Conditions	consists of stored information applicable to an active incident that has impact on current travel conditions	Freeway Traffic Management Center
	Manual Override	consists of the system users who have the authority to override the traffic system for maintenance, unplanned traffic timing plans, or incidents.	User Interface Equipment
	Personnel Assignments	consists of driver-to-run, driver-to-incident, supervisor-to-incident, maintenance personnel-to-incident, driver-to-training, and supervisor-to-training assignments.	Freeway Traffic Management Center
	Response Routes	consists of routes that allow assigned incident resources to reach an incident location in a minimal amount of time	Freeway Traffic Management Center
	Signal Pre-emption Request	is a request from emergency vehicle(s) for immediate pre-emption of intersection traffic signals. An emergency pre-emption request interrupts traffic signal timing plans to accommodate safe passage of the emergency vehicles.	Emergency Vehicle
	Signal Priority Request	is a request to pre-empt intersection, traffic signals. This request enables transit vehicles to return to schedule adherence & is lower in priority than an emergency vehicle signal pre-emption request.	Transit Vehicle
			Transit Vehicle
	Signal Timing Plan	consists of the implemented traffic control strategy in the form of a timing algorithm (cycle split, offset, etc)	Freeway Traffic Management Center

Destination Component	Data Flow Name	Definition	Source Component
Freeway Roadside Equipment	Signing Plan	consists of information messages and under what conditions which signs may be used to provide driver notification for unplanned traffic or road conditions.	Freeway Traffic Management Center
	Traffic Data	consists of traffic related information that is created for describing the traffic conditions of a pre-determined location. (e.g. speed, vehicle quantity,density,time stamp, & location of where the data is generated).	Probe Vehicle User Interface Equipment
	Traffic Surveillance Control	consists of control information for operating traffic signal systems	Freeway Traffic Management Center
	Travel Conditions- 1	consists of current/forecast information about traffic conditions, planned event information, incident conditions (e.g., accidents), transit conditions, road surface conditions, parking conditions (continued)	Freeway Traffic Management Center
	Travel Conditions-2	(continued) and weather that is customized to a user's specified trip and mode(s).	Freeway Traffic Management Center
	Vehicle - Assignments	consists of assignment of vehicles to facilities jurisdictions, personnel, incidents, maintenance, training or available.	Freeway Traffic Management Center
Freeway Traffic Management Center	Equipment status	consists of the accumulated hours of usage and operator reported problems	Emergency Vehicle
	Incident Aknowledge-ment	consists of notification to the reporting source of the incident that incident data has been received and/or incident resources have been dispatched.	Centralized Control Signal Center (s)
			Decentralized Control Signal Center(s)
			Demand Responsive Transit Center(s)
			Division of Emergency Management Center
			Incident Dispatch Center(s)
			Incident Dispatch Center(s)
			Inter-Jurisdictional Incident Management System
			Maintenance Dispatch Center
			Other Transit Management Center(s)
		Regional ITS Management Center	
		Regional ITS Management System	

Destination Component	Data Flow Name	Definition	Source Component
Freeway Traffic Management Center	Incident Acknowledgement	consists of notification to the reporting source of the incident that incident data has been received and/or incident resources have been dispatched.	State Patrol Dispatch Center
			State Patrol Dispatch Center
	Incident Conditions	consists of stored information applicable to an active incident that has impact on current travel conditions	Emergency Vehicle
			Incident Dispatch Center(s)
			State Patrol Dispatch Center
			State Patrol Dispatch Center
			User Interface Equipment
			Broadcast Information Provider(s)
	Incident Data	consists of information that is collected about an incident but may not be organized or stored in a repository- (e.g. incident location, type of incident and timestamp)	Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Demand Responsive Transit Center(s)
			Division of Emergency Management Center
			Emergency Vehicle
			External Information Source(s)
Incident Dispatch Center(s)			
Inter-Jurisdictional Incident Management system			
Maintenance Dispatch Center			
Mayday Service Provider(s)			
		Other Transit Management Center(s)	
		Regional ITS Management Center	
		Regional ITS Management system	
		State Patrol Dispatch Center	
		User Interface Equipment	

Destination Component	Data Flow Name	Definition	Source Component	
Freeway Traffic Management Center	Incident Response status	consists of ETAS of responding resources, current step of response procedure, and estimated time that the incident is cleared	Emergency Vehicle	
			Incident Dispatch Center(s)	
				State Patrol Dispatch Center
	Link Reference Model	consists of a commonly defined set of point, linear, and area geographical locations, such as roadway links, which ITS systems use to share geographical information between themselves.	External Information Source(s)	
			External Information Source(s)	
	Manual Override	consists of the system users who have the authority to override the traffic system for maintenance, unplanned traffic timing plans, or incidents.	User Interface Equipment	
	Personnel Assignments	consists of driver-to-run, driver-to-incident, supervisor-to-incident, maintenance personnel-to-incident, driver-to-training, and supervisor-to-training assignments.	Demand Responsive Transit Center(s)	
			Demand Responsive Transit Center(s)	
			Division of Emergency Management Center	
			Incident Dispatch Center(s)	
			Other Transit Management Center(s)	
			Other Transit Management Center(s)	
			Regional ITS Management Center	
			Regional ITS Management Center	
			Regional ITS Management Center	
State Patrol Dispatch Center				
Transit Service Provider(s)				
Planned Event Information	consists of information about construction and/or special events (e.g. sporting events, parades)	External Information Source(s)		
		Maintenance Dispatch Center		
		User Interface Equipment		
Resource Location	consist of the location of vehicles, equipment and personnel	Emergency Vehicle		

Destination Component	Data Flow Name	Definition	Source Component
Freeway Traffic Management Center	Resource Request	consists of a request to provide personnel, vehicles, and equipment to an incident.	Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Division of Emergency Management Center
			Emergency Vehicle
			External Information Source(s)
			Incident Dispatch Center(s)
			Inter-Jurisdictional Incident Management system
			Other Transit Management Center(s)
			Regional ITS Management Center
			State Patrol Dispatch Center
			Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Demand Responsive Transit Center(s)
			External Information Source(s)
Inter-Jurisdictional Traffic system			
Maintenance Dispatch Center			
Other Transit Management Center(s)			
Regional ITS Management Center			
Road Weather Information Center			
State Patrol Dispatch Center			
Truck Center			
User Interface Equipment			

Destination Component	Data Flow Name	Definition	Source Component
Freeway Traffic Management Center	Road Surface Data	consists of road surface information that is created for describing the road surface conditions of a pre-determined location. (e.g. condition of the road surface (wet, snow packed,slippery,bumpy,pot holes), road surface temperature, timestamp & location)	Freeway Roadside Equipment
	Road Surface Surveillance Data	consists of processed and summarized information that is created for describing the road surface conditions of a pre-determined location. (e.g. condition of road surface, road surface temperature, timestamp, & location)	Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Freeway Roadside Equipment
			Road Weather Information Center
			Tailored Traveler Information Provider(s)
			Tailored Traveler Information Provider(s)
	Signal Pre-emption Request	is-a request from emergency vehicle(s) for immediate pre-emption of intersection traffic signals. An emergency pre-emption request interrupts traffic signal timing plans to accommodate safe passage of the emergency vehicles.	Emergency Vehicle
			Incident Dispatch Center(s)
			State Patrol Dispatch Center
	Signal Priority Request	is a request to pre-empt intersection traffic signals. This request enables transit vehicles to return to schedule adherence & is lower in priority than an emergency vehicle signal pre-emption request.	Regional ITS Management Center
	Signal Timing Plan	consists of the implemented traffic control strategy in the form of a timing algorithm (cycle split, offset, etc)	Inter-Jurisdictional Traffic System
	Signing Plan	consists of information messages and under what conditions which signs may be used to provide driver notification for unplanned traffic or road conditions.	Inter-Jurisdictional Traffic System
Traffic Conditions	consists of information about flow of traffic for a pre-determined reporting area.	Centralized Control Signal Center(s)	
		Centralized Control Signal Center(s)	
		Decentralized Control Signal Center(s)	
		Decentralized Control Signal Center(s)	
		Inter-Jurisdictional Traffic System	

Destination Component	Data Flow Name	Definition	Source Component
Freeway Traffic Management Center	Traffic Conditions	consists of information about flow of traffic for a pre-determined reporting area.	Inter-Jurisdictional Traffic System
			Maintenance Dispatch Center
	Traffic Control Requirements	consists of specific traffic requirements that affect a traffic segment within a particular geographic area. (e.g. quitting time of a large business along a specific roadway.)	External Information Source(s)
			Other Transit Management Center(s)
			Other Transit Management Center(s)
			Regional ITS Management Center
			Regional ITS Management Center
	Traffic Data	consists of traffic related information that is created for describing the traffic conditions of a pre-determined location. (e.g. speed, vehicle quantity,density,time stamp, &location of where the data is generated).	Freeway Roadside Equipment
			User Interface Equipment
	Traffic Surveillance Data	consists of processed and summarized information about vehicles or incidents that may effect the travel of drivers within a pre-defined geographic location. (e.g. speed, vehicle quantity, road density, time stamp, and location of where data is generated.	Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Freeway Roadside Equipment
			Freeway Roadside Equipment
		Inter-Jurisdictional Traffic system	
		Tailored Traveler Information Provider(s)	
Travel Conditions Request	is a request for travel conditions information. It can consist of a request for all basic travel conditions info or for travel conditions info. tailored to the user's specific needs (e.g.route, mode, jurisdiction)	User Interface Equipment	
Travel Conditions- 1	consists of current/forecast information about traffic conditions, planned event information, incident conditions (e.g., accidents), transit conditions, road surface conditions, parking conditions (continued)	Freeway Roadside Equipment	
		Tailored Traveler Information Provider(s)	

Destination Component	Data Flow Name	Definition	Source Component
Freeway Traffic Management Center	Travel Conditions- 1	consists of current/forecast information about traffic conditions, planned event information, incident conditions (e.g., accidents), transit conditions, road surface conditions, parking conditions (continued)	Tailored Traveler Information Provider(s)
	Travel Conditions-2	(continued) and weather that is customized to a user's specified trip and mode(s).	Freeway Roadside Equipment
			Tailored Traveler Information Provider(s)
			Tailored Traveler Information Provider(s)
	Vehicle Assignments	consists of assignment of vehicles to facilities jurisdictions, personnel, incidents, maintenance, training or available.	Demand Responsive Transit Center(s)
			Demand Responsive Transit Center(s)
			Division of Emergency Management Center
			Freeway Traffic Management Center
			Incident Dispatch Center(s)
			Other Transit Management Center(s)
			Other Transit Management Center(s)
			Regional ITS Management Center
			Regional ITS Management Center
			Regional ITS Management Center
		State Patrol Dispatch Center	
		Transit Service Provider(s)	
Vehicle Location		consists of information that indicates the location of each vehicle.	Demand Responsive Transit Center(s)
			Demand Responsive Transit Center(s)
			Division of Emergency Management Center
			Emergency Vehicle
			Freeway Traffic Management Center
			Incident Dispatch Center(s)
			Other Transit Management Center(s)

Destination Component	Data Flow Name	Definition	Source Component
Freeway Traffic Management Center	Vehicle Location	consists of information that indicates the location of each vehicle.	Regional ITS Management Center
			Regional ITS Management center
			State Patrol Dispatch Center
			Transit Service Provider(s)
	Vehicle status	consists of maintenance conditions associated with the vehicle (including but not limited to fuel levels, brake status, mileage).	Emergency Vehicle
	Weather Conditions	consists of current and/or forecast weather conditions such as rain, snow, fog, sunny, clear.	External Information Source(s)
			External Information Source(s)
			External Information Source(s)
			Road Weather Information Center
	Weather Surveillance Data	consists of current weather data as received from devices (e.g. radar, video).	Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Freeway Roadside Equipment
			Road Weather Information Center
Tailored Traveler Information Provider(s)			
Incident Dispatch Center(s)	Equipment Location	consists of the location of the equipment	Emergency Vehicle
	Equipment Status	consists of the accumulated hours of usage and operator reported problems	Emergency Vehicle
			Emergency Vehicle
	Estimated Time of Arrival	consists of the projected time that resources will arrive at the incident location.	Emergency Vehicle
	Incident Acknowledgment	consists of notification to the reporting source of the incident that incident data has been received and/or incident resources have been dispatched.	Centralized Control Signal Center(s)
		Decentralized Control Signal Center(s)	

Destination Component	Data Flow Name	Definition	Source Component
Incident Dispatch Center(s)	Incident Acknowledgement	consists of notification to the reporting source of the incident that incident data has been received and/or incident resources have been dispatched.	Demand Responsive Transit Center(s)
			Division of Emergency Management Center
			Freeway Traffic Management Center
			Inter-Jurisdictional Incident Management system
			Maintenance Dispatch Center
			Other Transit Management Center(s)
			Regional ITS Management Center
			Regional ITS Management System
			State Patrol Dispatch Center
			Emergency Vehicle
Incident Conditions	Incident Data	consists of information that is collected about an incident but may not be organized or stored in a repository. (e.g. incident location, type of incident and timestamp)	Broadcast Information Provider(s)
			Centralized Control Signal Center(s)
			Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Demand Responsive Transit Center(s)
			Division of Emergency Management Center
			Emergency Vehicle
			Emergency Vehicle
			External Information Source(s)
Freeway Traffic Management Center			
Freeway Traffic Management Center			

Destination Component	Data Flow Name	Definition	Source Component
Incident Dispatch Center(s)	Incident Data	consists of information that is collected about an incident but may not be organized or stored in a repository. (e.g. incident location, type of incident and timestamp)	Inter-Jurisdictional Incident Management System
			Inter-Jurisdictional Traffic System
			Maintenance Dispatch Center
			Maintenance Dispatch Center
			Mayday Service Provider(s)
			Other Transit Management Center(s)
			Regional ITS Management Center
			Regional ITS Management System
			State Patrol Dispatch Center
			User Interface Equipment
Incident Response Status	consists of ETAS of responding resources, current step of response procedure, and estimated time that the incident is cleared	Emergency Vehicle	
		Emergency Vehicle	
Link Reference Model	consists of a commonly defined set of point, linear, and area geographical locations, such as roadway links, which ITS systems use to share geographical information between themselves.	External Information Source(s)	
		External Information Source(s)	
Personnel Assignments	consists of driver-to-run, driver-to-incident, supervisor-to-incident, maintenance personnel-to-incident, driver-to-training, and supervisor-to-training assignments.	Demand Responsive Transit Center(s)	
		Demand Responsive Transit Center(s)	
		Demand Responsive Transit Center(s)	
		Division of Emergency Management Center	
		Division of Emergency Management Center	
		Freeway Traffic Management Center	
		Freeway Traffic Management Center	

Destination Component	Data Flow Name	Definition	Source Component
Incident Dispatch Center(s)	Personnel Assignments	consists of driver-to-run, driver-to-incident, supervisor-to-incident, maintenance personnel-to-incident, driver-to-training, and supervisor-to-training assignments.	Other Transit Management Center(s)
			Other Transit Management Center(s)
			Other Transit Management Center(s)
			Regional ITS Management Center
			Regional ITS Management Center
			Regional ITS Management Center
			Regional ITS Management Center
			State Patrol Dispatch Center
			State Patrol Dispatch Center
			Transit Service Provider(s)
Resource Location	consist of the location of vehicles, equipment and personnel	Emergency Vehicle	
Resource Request	consists of a request to provide personnel, vehicles, and equipment to an incident.		Centralized Control Signal Center(s)
			Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Division of Emergency Management Center
			Division of Emergency Management Center
			Emergency Vehicle
			External Information Source(s)
			Freeway Traffic Management Center
			Freeway Traffic Management Center
Incident Dispatch Center(s)			
Inter-Jurisdictional Incident Management System			

Destination Component	Data Flow Name	Definition	Source Component
Incident Dispatch Center(s)	Resource Request	consists of a request to provide personnel, vehicles, and equipment to an incident.	Inter-Jurisdictional Incident Management system
			Maintenance Dispatch Center
			Other Transit Management Center(s)
			Other Transit Management Center(s)
			Regional ITS Management Center
			Regional ITS Management Center
			Regional ITS Management system
			State Patrol Dispatch center
			State Patrol Dispatch Center
			Signal Pre-emption Request
Travel Conditions Request	is a request for travel conditions information. It can consist of a request for all basic travel conditions info or for travel conditions info. tailored to the user's specific needs e.g. route, mode, jurisdiction)	Emergency Vehicle	
Vehicle Assignments		consists of assignment of vehicles to facilities jurisdictions, personnel, incidents, maintenance, training or available.	Demand Responsive Transit Center(s)
			Demand Responsive Transit Center(s)
			Demand Responsive Transit Center(s)
			Division of Emergency Management Center
			Division of Emergency Management Center
			Freeway Traffic Management Center
			Freeway Traffic Management Center
			Other Transit Management Center(s)
			Other Transit Management Center(s)

Destination Component	Data Flow Name	Definition	Source Component
Incident Dispatch Center(s)	Vehicle Assignments	consists of assignment of vehicles to facilities jurisdictions, personnel, incidents, maintenance, training or available.	Other Transit Management Center(s)
			Regional ITS Management Center
			Regional ITS Management Center
			Regional ITS Management center
			Regional ITS Management Center
			State Patrol Dispatch Center
			State Patrol Dispatch center
			Transit Service Provider(s)
			Demand Responsive Transit Center(s)
			Demand Responsive Transit Center(s)
			Demand Responsive Transit Center(s)
			Division of Emergency Management Center
			Division of Emergency Management Center
			Emergency Vehicle
Emergency Vehicle			
Vehicle Location	consists of information that indicates the location of each vehicle.	Freeway Traffic Management Center	
		Freeway Traffic Management Center	
		Other Transit Management Center(s)	
		Other Transit Management Center(s)	
		Regional ITS Management Center	
		Regional ITS Management Center	
		Regional ITS Management Center	
		Regional ITS Management Center	
		State Patrol Dispatch Center	
		State Patrol Dispatch Center	

Destination Component	Data Flow Name	Definition	Source Component
Incident Dispatch Center(s)	Vehicle Location	consists of information that indicates the location of each vehicle.	State Patrol Dispatch Center
			Transit Service Provider(s)
	Vehicle status	consists of maintenance conditions associated with the vehicle (including but not limited to fuel levels, brake status, mileage).	Emergency Vehicle
			Emergency Vehicle
Information Provider(s)	Incident Conditions	consists of stored information applicable to an active incident that has impact on current travel conditions	Regional ITS Management System
	Link Reference Model	consists of a commonly defined set of point, linear, and area geographical locations, such as roadway links, which ITS systems use to share geographical information between themselves.	External Information Source(s)
			External Information Source(s)
	Mode Use Information	consists of information on how to use a specified transit mode (e.g. bus, train, etc.) such as rules for use, hours of operation, payment methods, etc.	Regional ITS Management System
			Transit Service Provider(s)
	Parking Conditions	consists of information about parking availability and parking lot status (e.g open, closed)	Regional ITS Management system
	Parking Fees	consists of the specific prices charged for parking services.	Regional ITS Management System
	Planned Event Information	consists of information about construction and/or special events (e.g. sporting events, parades)	External Information Source(s)
			Regional ITS Management system
			User Interface Equipment
	Road Surface Conditions	consists of current and/or forecast road conditions such as dry, wet, flooded, snow covered, slippery, plowed, salted, sanded (based on road surface surveillance data and weather forecasts).	External Information Source(s)
			Regional ITS Management system
			User Interface Equipment
Road Surface Surveillance Data	consists of processed and Summarized information that is created for describing the road surface conditions of a pre-determined location. (e.g. condition of road surface, road surface temperature, timestamp, & location)	Centralized Control Signal Center(s)	
		Decentralized Control Signal Center(s)	
		Freeway Traffic Management Center	

Destination Component	Data Flow Name	Definition	Source Component	
Information Provider(s)	Road Surface Surveillance Data	consists of processed and summarized information that is created for describing the road surface conditions of a pre-determined location. (e.g. condition of road surface, road surface temperature, timestamp, & location)	Tailored Traveler Information Provider(s)	
	Tolls	consist of the specific prices charged for use of a roadway	Toll Authority Center(s)	
	Traffic Conditions			Centralized Control Signal Center(s)
				Decentralized Control Signal Center(s)
				Freeway Traffic Management Center
				Regional ITS Management system
	Traffic Surveillance Data			Centralized Control Signal Center(s)
				Decentralized Control Signal Center(s)
				Freeway Traffic Management Center
				Tailored Traveler Information Provider(s)
	Transit Conditions	consists of information about transit vehicle schedule adherence, rideshare data, and transit provider information including but not limited to vehicle ID, transit stop, estimated vehicle arrival time, estimated vehicle departure time, current schedule.	Regional ITS Management System	
	Transit Fares	consists of the specific prices charged for transit services	Regional ITS Management System	
	Transit Route	consists of Fixed Routes and Flexible Routes information.	Regional ITS Management System	
Transit Route Schedule	consists of arrival/departure times for each transit stop location along each transit route as well as transfer information.	Regional ITS Management System		
Travel Conditions Request	is a request for travel conditions information. It can consist of a request for all basic travel conditions info or for travel conditions info. tailored to the user's specific needs (e.g.route, mode, jurisdiction)	User Interface Equipment		
Travel Conditions- 1	consists of current/forecast information about traffic conditions, planned event information, incident conditions (e.g., accidents), transit conditions, road surface conditions, parking conditions (continued)	Tailored Traveler Information Provider(s)		
Travel Conditions-2	(continued) and weather that is customized to a user's specified trip and mode(s).	Tailored Traveler Information Provider(s)		

Destination Component	Data Flow Name	Definition	Source Component
Information Provider(s)	Trip Request	consists of a request for a tailored route, directions, and/or itinerary.	Transit Information' Distribution Equipment User Interface Equipment
	Weather Conditions	consists of current and/or forecast weather conditions such as rain, snow, fog, sunny, clear.	External Information Source(s) Regional ITS Management System
	Weather Surveillance Data	consists of current weather data as received from devices (e.g. radar, video).	Centralized Control Signal Center(s) Decentralized Control Signal Center(s) Freeway Traffic Management Center Tailored Traveler Information Provider(s)
	Equipment Location	consists of the location of the equipment	Emergency Vehicle
	Equipment Status	consists of the accumulated hours of usage and operator reported problems	Emergency Vehicle
	Incident Acknowledgement	consists of notification to the reporting source of the incident that incident data has been received and/or incident resources have been dispatched.	Centralized Control Signal Center(s) Decentralized Control Signal Center(s) Demand Responsive Transit Center(s) Division of Emergency Management Center Freeway Traffic Management Center Incident Dispatch Center(s) Maintenance Dispatch Center Other Transit Management Center(s) Regional ITS Management Center Regional ITS Management system State Patrol Dispatch Center
	Inter-Jurisdictional Incident Management System		

Destination Component	Data Flow Name	Definition	Source Component
Inter-Jurisdictional Incident Management System	Incident Conditions	consists of stored information applicable to an active incident that has impact on current travel conditions	Freeway Traffic Management Center
	Incident Data	consists of information that is collected about an incident but may not be organized or stored in a repository. (e.g. incident location, type of incident and timestamp)	Broadcast Information Provider(s)
			Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Demand Responsive Transit Center(s)
			Division of Emergency Management Center
			Emergency Vehicle
			External Information Source(s)
			Freeway Traffic Management Center
			Incident Dispatch Center(s)
			Maintenance Dispatch Center
			May&y Service Provider(s)
			Other Transit Management Center(s)
			Regional ITS Management Center
			Regional ITS Management system
		State Patrol Dispatch Center	
		User Interface Equipment	
	Incident Response Status	consists of ETAS of responding resources, current step of response procedure, and estimated time that the incident is cleared	Emergency Vehicle
	Link Reference Model	consists of a commonly defined set of point, linear, and area geographical locations, such as roadway links, which ITS systems use to share geographical information between themselves.	External Information Source(s)
	Personnel Assignments	consists of driver-to-run, driver-to-incident, supervisor-to-incident, maintenance personnel-to-incident, driver-to-training, and supervisor-to-training assignments.	Demand Responsive Transit Center(s)

Destination Component	Data Flow Name	Definition	Source Component
Inter-Jurisdictional Incident Management System	Personnel Assignments	consists of driver-to-run, driver-to-incident, supervisor-to-incident, maintenance personnel-to-incident, driver-to-training, and supervisor-to-training assignments.	Division of Emergency Management Center
			Freeway Traffic Management Center
			Incident Dispatch Center(s)
			Other Transit Management Center(s)
			Other Transit Management Center (s)
			Regional ITS Management Center
			Regional ITS Management Center
			Regional ITS Management Center
			State Patrol Dispatch Center
			Transit Service Provider(s)
Resource Request	consists of a request to provide personnel, vehicles, and equipment to an incident.	Emergency Vehicle	
Signal Pre-emption Request	is a request from emergency vehicle(s) for immediate pre-emption of intersection traffic signals. An emergency pre-emption request interrupts traffic signal timing plans to accommodate safe passage of the emergency vehicles.	Emergency Vehicle	
Travel Conditions Request	is a request for travel conditions information. It can consist of a request for all basic travel conditions info or for travel conditions info. tailored to the user's specific needs (e.g.route, mode, jurisdiction)	Emergency Vehicle	
Travel Conditions-1	consists of current/forecast information about traffic conditions, planned event information, incident conditions (e.g., accidents), transit conditions, road surface conditions, parking conditions (continued)	Freeway Traffic Management Center	
Travel Conditions-2	(continued) and weather that is customized to a user's specified trip and mode(s).	Freeway Traffic Management Center	
Vehicle Assignments	consists of assignment of vehicles to facilities jurisdictions, personnel, incidents, maintenance, training or available.	Demand Responsive Transit Center(s)	
		Demand Responsive Transit Center(s)	
		Division of Emergency Management Center	
		Freeway Traffic Management Center	
		Incident Dispatch Center(s)	

. Destination Component	Data Flow Name	Definition	Source Component
Inter-Jurisdictional Incident Management system	Vehicle Assignments	consists of assignment of vehicles to facilities jurisdictions, personnel, incidents, maintenance, training or available.	Other Transit Management Center(s)
			Other Transit Management Center(s)
			Regional ITS Management Center
			Regional ITS Management Center
			Regional ITS Management Center
			State Patrol Dispatch Center
	Vehicle Location	consists of information that indicates the location of each vehicle.	Transit Service Provider(s)
			Demand Responsive Transit Center(s)
			Demand Responsive Transit Center(s)
			Division of Emergency Management Center
			Emergency Vehicle
			Freeway Traffic Management Center
			Incident Dispatch Center(s)
			Other Transit Management Center(s)
			Regional ITS Management center
Regional ITS Management Center			
Vehicle Status	consists of maintenance conditions associated with the vehicle (including but not limited to fuel levels, brake status, mileage).	State Patrol Dispatch Center	
		Transit Service Provider(s)	
Inter-Jurisdictional Traffic System	Incident Acknowledgement	consists of notification to the reporting source of the incident that incident data has been received and/or incident resources have been dispatched.	Emergency Vehicle
			Incident Dispatch Center(s)
			State Patrol Dispatch Center

Destination Component	Data Flow Name	Definition	Source Component
Inter-Jurisdictional Traffic System	Incident Conditions	consists of stored information applicable to an active incident that has impact on current travel conditions	Incident Dispatch Center(s)
			State Patrol Dispatch Center
			State Patrol Dispatch Center
	Incident Response status	consists of ETAS of responding resources, current step of response procedure, and estimated time that the incident is cleared	Incident Dispatch Center(s)
			State Patrol Dispatch Center
	Link Reference Model	consists of a commonly defined set of point, linear, and area geographical locations, such as roadway links, which ITS systems use to share geographical information between themselves.	External Information Source(s)
	Manual Override	consists of the system users who have the authority to override the traffic system for maintenance, unplanned traffic timing plans, or incidents.	User Interface Equipment
	Planned Event Information	consists of information about construction and/or special events (e.g. sporting events, parades)	External Information Source(s)
			Maintenance Dispatch Center
	Road Surface Conditions	consists of current and/or forecast road conditions such as dry, wet, flooded, snow covered, slippery, plowed, salted, sanded (based on road surface surveillance data and weather forecasts).	Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Demand Responsive Transit Center(s)
			External Information Source(s)
			Freeway Traffic Management Center
			Maintenance Dispatch Center
Other Transit Management Center(s)			
Regional ITS Management Center			
Road Weather Information Center			
State Patrol Dispatch Center			

Destination Component	Data Flow Name	Definition	Source Component
Inter-Jurisdictional Traffic System	Road Surface Conditions	consists of current and/or forecast road conditions such as dry, wet, flooded, snow covered, slippery, plowed, salted, sanded (based on road surface surveillance data and weather forecasts).	Truck Center
	Road Surface Data	consists of road surface information that is created for describing the road surface conditions of a pre-determined location. (e.g. condition of the road surface (wet, snow, packed,slippery,bumpy,pot holes), road surface temperature, timestamp & location)	Centralized Roadside Equipment
	Road Surface Surveillance Data	consists of processed and summarized information that is created for describing the road surface conditions of a pre-determined location. (e.g. condition of road surface, road surface temperature, timestamp, & location)	Road Weather Information center
	Signal pre-emption Request	is a request from emergency vehicle(s) for immediate pre-emption of intersection traffic signals. An emergency pre-emption request interrupts traffic <i>signal timing</i> plans to accommodate safe passage of the emergency vehicles.	Incident Dispatch Center(s)
			State Patrol Dispatch Center
	Signal Priority Request	is a request to pre-empt intersection traffic signals. This request enables transit vehicles to return to schedule adherence & is lower in priority than an emergency vehicle signal pre-emption request.	Regional ITS Management Center
	Traffic Conditions	consists of information about flow of traffic for a pre-determined reporting area.	Centralized Control Signal Center(s)
			Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Freeway Traffic Management Center
			Freeway Traffic Management Center
	Traffic Control Requirements	consists of specific traffic requirements that affect a traffic segment within a particular geographic area. (e.g. quitting time of a large business along a specific roadway.)	Maintenance Dispatch Center
		Other Transit Management Center(s)	
		Regional ITS Management Center	
Traffic Data	consists of traffic related information that is created for describing the traffic conditions of a pre-determined location. (e.g. speed, vehicle quantity,density,time stamp, & location of where the data is generated).	Centralized Roadside Equipment	

Destination Component	Data Flow Name	Definition	Source Component
Inter-Jurisdictional Traffic System	Traffic Data	consists of traffic related information that is created for describing the traffic conditions of a pre-determined location. (e.g. speed, vehicle quantity,density,time stamp, & location of where the data is generated).	Centralized Roadside Equipment
	Traffic Surveillance Data	consists of processed and summarized information about vehicles or incidents that may effect the travel of drivers within a pre-defined geographic location. (e.g. speed, __ vehicle quantity, road density, time stamp, and location of where data is generated.	Centralized Control Signal Center(s)
			Centralized Roadside Equipment
			Centralized Roadside Equipment
			Decentralized Control Signal Center(s)
			Freeway Traffic Management Center
	Travel Conditions-1	consists of current/forecast information about traffic conditions, planned event information, incident conditions (e.g., accidents), transit conditions, road surface conditions, parking conditions (continued)	Tailored Traveler Information Provider(s)
			Tailored Traveler Information Provider(s)
	Travel Conditions-2	(continued) and weather that is customized to a user's specified trip and mode(s).	Tailored Traveler Information Provider(s)
			Tailored Traveler Information Provider(s)
	Weather Conditions	consists of current and/or forecast weather conditions such as rain snow, fog, sunny, clear.	External Information Source(s)
			External Information Source(s)
			External Information Source(s)
		Road Weather Information Center	
Weather Surveillance Data	consists of current weather data as received from devices (e.g. radar, video).	Road Weather Information Center	
Inter-Jurisdictional Transit System	Link Reference Model	consists of a commonly defined set of point, linear, and area geographical locations, such as roadway links, which ITS systems use to share geographical information between themselves.	External Information Source(s)
	Mode Use Information	consists of information on how to use a specific transit mode (e.g. bus, train etc.) such as rules for use, hours of operation, payment methods, etc.	Other Transit Management Center (s)

Destination Component	Data Flow Name	Definition	Source Component
Inter-Jurisdictional Transit System	Mode Use Information	consists of information on how to use a specific transit mode (e.g. bus, train, etc.) such as rules for use, hours of operation, payment methods, etc.	Regional ITS Management Center Regional ITS Management system
	Parking Fees	consists of the specific prices charged for parking services.	Parking Management Center(s)
	Schedule Adherence Information	consists of information describing fleet schedule adherence indicating route segment running time, transit stop arrival time and transit stop departure time.	Demand Responsive Transit Center(s) Other Transit Management Center(s)
			Transit Service Provider(s)
	Transit Fares	consists of the specific prices charged for transit services	Other Transit Management Center(s) Regional ITS Management Center
	Transit Route	consists of Fixed Routes and Flexible Routes information.	Other Transit Management Center(s) Regional ITS Management Center
	Transit Route Schedule	consists of arrival/departure times for each transit stop location along each transit route as well as transfer information.	Other Transit Management Center(s) Regional ITS Management Center
	Travel Conditions-1	consists of current/forecast information about traffic conditions, planned event information, incident conditions (e.g., accidents), transit conditions, road surface conditions, parking conditions (continued)	Tailored Traveler Information Provider(s)
	Travel Conditions-2	(continued) and weather that is customized to a user's specified trip and mode(s).	Tailored Traveler Information Provider(s)
	Maintenance Dispatch Center	Equipment Status	consists of the accumulated hours of usage and operator reported problems
Incident Acknowledgement		consists of notification to the reporting source of the incident that incident data has been received and/or incident resources have been dispatched.	Centralized Control Signal Center(s) Decentralized Control Signal Center(s)
			Demand Responsive Transit Center(s)
			Division of Emergency Management Center

Destination Component	Data Flow Name	Definition	Source Component
Maintenance Dispatch Center	Incident Acknowledgement	consists of notification to the reporting source of the incident that incident data has been received and/or incident resources have been dispatched.	Freeway Traffic Management Center
			Incident Dispatch Center(s)
			Incident Dispatch Center(s)
			Inter-Jurisdictional Incident Management System
			Other Transit Management Center(s)
			Regional ITS Management Center
			Regional ITS Management system
			State Patrol Dispatch Center
			State Patrol Dispatch Center
			State Patrol Dispatch Center
Incident Conditions	consists of stored information applicable to an active incident that has impact on current travel conditions		Freeway Traffic Management Center
			Incident Dispatch Center(s)
			Maintenance Vehicle
			State Patrol Dispatch Center
			State Patrol Dispatch Center
Incident Data	consists of information that is collected about an incident but may not be organized or stored in a repository. (e.g. incident location, type of incident and timestamp)		Broadcast Information Provider(s)
			Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Demand Responsive Transit Center(s)
			Division of Emergency Management Center
			External Information Source(s)
			Freeway Traffic Management Center
			Incident Dispatch Center(s)

Destination Component	Data Flow Name	Definition	Source Component
Maintenance Dispatch Center	Incident Data	consists of information that is collected about an incident but may not be organized or stored in a repository. (e.g. incident location, type of incident and timestamp)	Inter-Jurisdictional Incident Management System
			Maintenance Vehicle
			Mayday Service Provider(s)
			Other Transit Management Center(s)
			Regional ITS Management Center
			Regional ITS Management System
			State Patrol Dispatch Center
	Incident Response status	consists of ETAS of responding resources, current step of response procedure, and estimated time that the incident is cleared	Incident Dispatch Center(s)
			Maintenance Vehicle
			State Patrol Dispatch Center
	Link Reference Model	consists of a commonly defined set of point, linear, and area geographical locations, such as roadway links, which ITS systems use to share geographical information between themselves.	External Information Source(s)
			External Information Source(s)
	Manual Override	consists of the system users who have the authority to override the traffic system for maintenance, unplanned traffic timing plans, or incidents.	User Interface Equipment
	Planned Event Information	consists of information about construction and/or special events (e.g. sporting events, parades)	External Information Source(s)
User Interface Equipment			
Resource Location	consist of the location of vehicles, equipment and personnel	Maintenance Vehicle	
		Road Maintenance Roadside Equipment	
Resource Request	consists of a request to provide personnel, vehicles, and equipment to an incident.	Centralized Control Signal Center(s)	
		Decentralized Control Signal Center(s)	
		Division of Emergency Management Center	
		External Information Source(s)	

Destination Component	Data Flow Name	Definition	Source Component
Maintenance Dispatch Center	Resource Request	consists of a request to provide personnel, vehicles, and equipment to an incident.	Freeway Traffic Management Center
			Incident Dispatch Center(s)
			Inter-Jurisdictional Incident Management system
			Maintenance Vehicle
			Other Transit Management Center(s)
			Regional ITS Management Center
			Road Maintenance Roadside Equipment
			State Patrol Dispatch Center
			Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
Road Surface Conditions		consists of current and/or forecast road conditions such as dry, wet, flooded, snow covered, slippery, plowed, salted, sanded (based on road surface surveillance data and weather forecasts).	Demand Responsive Transit Center(s)
			External Information Source(s)
			Freeway Traffic Management Center
			Inter-Jurisdictional Traffic system
			Other Transit Management Center(s)
			Regional ITS Management Center
			Road Weather Information Center
			State Patrol Dispatch Center
			Truck Center
			User Interface Equipment
Road Surface Data		consists of road surface information that is created for describing the road surface conditions of a pm-determined location. (e.g. condition of the road surface (wet, snow packed,slippery,bumpy,pot holes), road surface temperature, timestamp & location)	Road Maintenance Roadside Equipment

Destination Component	Data Flow Name	Definition	Source Component
Maintenance Dispatch Center	Road Surface Surveillance Data	consists of processed and summarized information that is created for describing the road surface conditions of a pre-determined location. (e.g. condition of road surface, road surface temperature, timestamp, & location)	Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Freeway Traffic Management Center
			Road Weather Information Center
			Tailored Traveler Information Provider(s)
			Tailored Traveler Information Provider(s)
	Signal Pre-emption Request	is a request from emergency vehicle(s) for immediate pre-emption of intersection traffic signals. An emergency pre-emption request interrupts traffic signal timing plans to accommodate safe passage of the emergency vehicles.	Road Maintenance Roadside Equipment
	Signal Priority Request	is a request to pre-empt intersection traffic signals. This request enables transit vehicles to return to schedule adherence & is lower in priority than an emergency vehicle signal pre-emption request.	Maintenance Vehicle
	Traffic Conditions	consists of information about flow of traffic for a pre-determined reporting area.	Centralized Control Signal Center(s)
			Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Freeway Traffic Management Center
			Freeway Traffic Management Center
		Inter-Jurisdictional Traffic System	
		Inter-Jurisdictional Traffic system	
Traffic Control Requirements	consists of specific traffic requirements that affect a traffic segment within a particular geographic area. (e.g. quitting time of a large business along a specific roadway.)	External Information Source(s)	
Traffic Data	consists of traffic related information that is created for describing the traffic conditions of a pre-determined location. (e.g. speed, vehicle quantity,density,time stamp, & location of where the data is generated).	Road Maintenance Roadside Equipment	
		User Interface Equipment	

Destination Component	Data Flow Name	Definition	Source Component
Maintenance Dispatch Center	Traffic Surveillance Data	consists of processed and summarized information about vehicles or incidents that may effect the travel of drivers within a pre-defined geographic location. (e.g. speed, vehicle quantity, road density, time stamp, and location of where data is generated.	Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Freeway Traffic Management Center
			Road Maintenance Roadside Equipment
			Tailored Traveler Information Provider(s)
	Travel Conditions Request	is a request for travel conditions information. It can consist of a request for all basic travel conditions info or for travel conditions info. tailored to the user's specific needs (e.g.route, mode, jurisdiction)	User Interface Equipment
	Travel Conditions- 1	consists of current/forecast information about traffic conditions, planned event information, incident conditions (e.g., accidents), transit conditions, road surface conditions, parking conditions (continued)	Freeway Traffic Management Center
			Tailored Traveler Information Provider(s)
			Tailored Traveler Information Provider(s)
	Travel Conditions-2	(continued) and weather that is customized to a user's specified trip and mode(s).	Freeway Traffic Management Center
Tailored Traveler Information Provider(s)			
Tailored Traveler Information Provider(s)			
Vehicle Location	consists of information that indicates the location of each vehicle.	Maintenance Vehicle	
		Road Maintenance Roadside Equipment	
Vehicle status	consists of maintenance conditions associated with the vehicle (including but not limited to fuel levels, brake status, mileage).	Maintenance Vehicle	
		Road Maintenance Roadside Equipment	
Weather Conditions	consists of current and/or forecast weather conditions such as rain, snow, fog, sunny, clear.	External Information Source(s)	
		External Information Source(s)	
		External Information Source(s)	

Destination Component	Data Flow Name	Definition	Source Component
Maintenance Dispatch Center	Weather Conditions	consists of current an&or forecast weather conditions such as rain, snow, fog, sunny, clear.	Road Weather Information Center
	Weather Surveillance Data	consists of current weather data as received from devices (e.g. radar, video).	Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Freeway Traffic Management Center
			Road Weather Information Center
			Tailored Traveler Information Provider(s)
Maintenance Vehicle	Equipment Assignments	consists of the assignment of equipment to vehicles, facilities, personnel, incidents, maintenance, training	Inter-Jurisdictional Incident Management System
			Maintenance Dispatch Center
	Estimated Time of Arrival	consists of the projected time that resources will arrive at the incident location.	Inter-Jurisdictional Incident Management system
			Maintenance Dispatch Center
	Incident Acknowledgement	consists of notification to the reporting source of the incident that incident data has been received and/or incident resources have been dispatched.	Maintenance Dispatch Center
	Incident Conditions	consists of stored information applicable to an active incident that has impact on current travel conditions	Inter-Jurisdictional Incident Management system
			Maintenance Dispatch Center
	Personnel Assignments	consists of driver-to-run, driver-to-incident, supervisor-to-incident, maintenance personnel-to-incident, driver-to-training, and supervisor-to-training assignments.	Inter-Jurisdictional Incident Management system
			Maintenance Dispatch Center
	Response Routes	consists of routes that allow assigned incident resources to reach an incident location in a minimal amount of time	Inter-Jurisdictional Incident Management System
		Maintenance Dispatch Center	
Vehicle Assignments	consists of assignment of vehicles to facilities jurisdictions, personnel, incidents, maintenance, training or available.	Inter-Jurisdictional Incident Management system	
		Maintenance Dispatch Center	

Destination Component	Data Flow Name	Definition	Source Component	
Mayday Service Provider(s)	Account Validation Notice	consists of a confirmation that a user's bank account or credit card number is correct and valid.	Financial Institution(s)	
	Activation/Deactivation Request	consists of a request for activation/deactivation of an entire ATIS service or a rideshare provider profile	User Interface Equipment	
	Authorized User List	consists of a list of authorized users for the specified service.	Account Management Provider(s)	
	Incident Acknowledgement		consists of notification to the reporting source of the incident that incident data has been received and/or incident resources have been dispatched.	Demand Responsive Transit Center(s)
				Division of Emergency Management Center
				Freeway Traffic Management Center
				Incident Dispatch Center(s)
				Inter-Jurisdictional Incident Management System
				Maintenance Dispatch Center
				Other Transit Management Center(s)
				Regional ITS Management Center
				Regional ITS Management System
				State Patrol Dispatch Center
	Incident Data	consists of information that is collected about an incident but may not be organized or stored in a repository. (e.g. incident location, type of incident and tin-restamp)	User Interface Equipment	
Link Reference Model	consists of a commonly defined set of point, linear, and area geographical locations, such as roadway links, which ITS systems use to share geographical information between themselves.	External Information Source(s)		
Mayday Cancellation	consists of a termination of a May&y request for service	User Interface Equipment		
Mayday Request	consists of a call for assistance	User Interface Equipment		
Pricing Requirements	consists of requirements for pricing transportation services.	User Interface Equipment		
Service Payment	consists of payments for parking, tolls, transit fares, traveler information services.	Financial Institution(s)		

Destination Component	Data Flow Name	Definition	Source Component
Mayday Service Provider(s)	User Profile	consists of information specific to a user that uniquely identifies that user and their travel information preferences.	Account Management Provider(s)
			User Interface Equipment
			User Interface Equipment
Other Transit Management Center(s)	Account Validation Notice	consists of a confirmation that a user's bank account or credit card number is correct and valid.	Financial Institution(s)
	Account Validation Request	consists of a request to determine the validity of a user's bank account or credit card number.	Transit Route Equipment
			Transit Vehicle
	Authorized User List	consists of a list of authorized users for the specified service.	Account Management Provider(s)
	Detour Request	is a request to provide an alternate route between two transit stops.	Transit Vehicle
			Transit Vehicle
	Detour Route	consists of an alternate route between an origin and destination. Used to route a vehicle around incidents/congestion, or to route a rideshare vehicle to pick up an additional customer.	Tailored Traveler Information Provider(s)
	Driver Criminal History	consists of transit personnel criminal history	External Information Source(s)
	Driver License Expiration Data	consists of transit personnel driver license expiration data	External Information Source(s)
	Driver Shift constraints	consists of information about drivers schedule preference, seniority, and garage assignment.	External Information Source(s)
	Drug/Alcohol Test Results	consists of transit personnel drug / alcohol test results	External Information Source(s)
	Equipment status	consists of the accumulated hours of usage and operator reported problems	Emergency Vehicle
			Transit Vehicle
	Flight Arrival/Departure Times	consists of airline flight arrival / departure schedules	External Information Source(s)
Incident Acknowledgement	consists of notification to the reporting source of the incident that incident data has been received and/or incident resources have been dispatched.	Centralized Control Signal Center(s)	
		Decentralized Control Signal Center(s)	
		Demand Responsive Transit Center(s)	

Destination Component	Data Flow Name	Definition	Source Component		
Other Transit Management Center(s)	Incident Acknowledgment	consists of notification to the reporting source of the incident that incident data has been received and/or incident resources have been dispatched.	Division of Emergency Management Center		
			Freeway Traffic Management Center		
			Incident Dispatch Center(s)		
			Inter-Jurisdictional Incident Management System		
			Maintenance Dispatch Center		
			Regional ITS Management System		
			State Patrol Dispatch Center		
	Incident Conditions	consists of stored information applicable to an active incident that has impact on current travel conditions	Emergency Vehicle		
			Other Transit Management Center(s)		
			State Patrol Dispatch Center		
			Transit Vehicle		
			Incident Data	consists of information that is collected about an incident but may not be organized or stored in a repository. (e.g. incident location, type of incident and timestamp)	Broadcast Information Provider(s)
					Centralized Control Signal Center(s)
					Decentralized Control Signal Center(s)
Demand Responsive Transit Center(s)					
Division of Emergency Management Center					
Emergency Vehicle					
External Information Source(s)					
			Freeway Traffic Management Center		
			Incident Dispatch Center(s)		
			Inter-Jurisdictional Incident Management System		
			Maintenance Dispatch Center		

Destination Component	Data Flow Name	Definition	Source Component
Other Transit Management Center (s)	Incident Data	consists of information that is collected about an incident but may not be organized or stored in a repository. (e.g. incident location, type of incident and timestamp)	Mayday Service Provider(s)
			Regional ITS Management System
			State Patrol Dispatch Center
			Transit Vehicle
	Incident Response status	consists of ETAS of responding resources, current step of response procedure, and estimated time that the incident is cleared	Emergency Vehicle
			Transit Vehicle
	Link Reference Model	consists of a commonly defined set of point, linear, and area geographical locations, such as roadway lii, which ITS systems use to share geographical information between themselves.	External Information Source(s)
			External Information Source(s)
			External Information Source(s)
	Maintenance Completion	consists of status information pertaining to the maintenance recently performed on the vehicle.	Transit Maintenance Garage
			Transit Maintenance Garage
	Maintenance Request	consists of request for preventive or on-demand maintenance on vehicles or equipment based on reported conditions, mileage, or hours of service.	Transit Maintenance Garage
			Transit Maintenance Garage
	Mode Use Information	consists of information on how to use a specific transit mode (e.g. bus, train, etc.) such as rules for use, hours of operation, payment methods, etc.	Regional ITS Management System
Moving Violations	consists of transit personnel moving violations history	External Information Source(s)	
Parking Fees	consists of the specific prices charged for parking services.	Parking Management Center (s)	
Personnel Assignments	consists of driver-to-run, driver-to-incident, supervisor-to-incident, maintenance personnel-to-incident, driver-to-training, and supervisor-to-training assignments.	Inter-Jurisdictional Incident Management System	
		Regional ITS Management Center	

Destination Component	Data Flow Name	Definition	Source Component
Other Transit Management Center(s)	Personnel Availability Information	consists of transit personnel available for assignments	External Information Source(s)
	Planned Event Information	consists of information about construction and/or special events (e.g. sporting events, parades)	External Information Source(s)
			Maintenance Dispatch center
			Other Transit Management Center(s)
			User Interface Equipment
Pricing Requirements		consists of requirements for pricing transportation services.	Demand Responsive Transit Center(s)
			Other Public Agencies
			Other Transit Management Center(s)
			Regional ITS Management center
			Transit Service Provider(s)
			User Interface Equipment
			Emergency Vehicle
Resource Location		consist of the location of vehicles, equipment and personnel	Transit Vehicle
Resource Request		consists of a request to provide personnel, vehicles, and equipment to an incident.	Centralized Control Signal Center(s)
			Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Demand Responsive Transit Center(s)
			Division of Emergency Management Center
			Division of Emergency Management Center
			Emergency Vehicle
			Emergency Vehicle
			External Information Source(s)
			External Information Source(s)

Destination Component	Data Flow Name	Definition	Source Component		
Other Transit Management Center(s)	Resource Request	consists of a request to provide personnel, vehicles, and equipment to an incident.	Freeway Traffic Management Center		
			Freeway Traffic Management Center		
			Incident Dispatch Center(s)		
			Incident Dispatch Center(s)		
			Inter-Jurisdictional Incident Management system		
			Inter-Jurisdictional Incident Management system		
			Regional ITS Management Center		
			State Patrol Dispatch Center		
			State Patrol Dispatch Center		
			Transit Vehicle		
			Transit Vehicle		
			Road Construction Data	consists of transit vehicle report of witnessed significant road construction information.	Transit Vehicle
			Road Surface Conditions	consists of current and/or forecast road conditions such as dry, wet, flooded, snow covered, slippery, plowed, salted sanded (based on road surface surveillance data and weather forecasts).	Centralized Control Signal Center(s)
					Decentralized Control Signal Center(s)
					Demand Responsive Transit Center(s)
		External Information Source(s)			
		Freeway Traffic Management Center			
		Inter-Jurisdictional Traffic System			
		Maintenance Dispatch Center			
		Other Transit Management Center(s)			
		Regional ITS Management Center			

Destination Component	Data Flow Name	Definition	Source Component	
Other Transit Management Center(s)	Road Surface Conditions	consists of current and/or forecast road conditions such as dry, wet, flooded, snow covered, slippery, plowed, salted, sanded (based on road surface surveillance data and weather forecasts).	Road Weather Information Center	
			State Patrol Dispatch Center	
			Transit Service Provider(s)	
				Truck Center
	Road Surface Surveillance Data	consists of processed and summarized information that is created for describing the road surface conditions of a pre-determined location. (e.g. condition of road surface, road surface temperature, timestamp, & location)		Centralized Control Signal Center(s)
				Decentralized Control Signal Center(s)
				Freeway Traffic Management Center
				Tailored Traveler Information Provider(s)
	Schedule Adherence Information	consists of information describing fleet schedule adherence indicating route segment running time, transit stop arrival time and transit stop departure time.		Demand Responsive Transit Center(s)
				Other Transit Management Center(s)
Regional ITS Management Center				
Regional ITS Management Center				
Transit Service Provider(s)				
Service Payment	consists of payments for parking, tolls, transit fares, traveler information services.		Financial Institution(s)	
			Transit Route Equipment	
			Transit Vehicle	
Service Usage Data 1	consists of data required to generate a user's service invoice for services rendered as well as overall transit resource statistics, including trip origin and destination, departure and arrival time, vehicle % full at stop, (continued)		Transit Route Equipment	
			Transit Vehicle	
Service Usage Data 2	(continued) number of passengers entering and exiting vehicle at stop, payment method, fare type, vehicle dwell time at stop, and wheel chair lift use at stop.		Transit Route Equipment	
			Transit Vehicle	
Signal Pre-emption Request	is a request from emergency vehicle(s) for immediate pre-emption of intersection traffic signals. An emergency pre-emption request interrupts traffic signal timing plans to accommodate safe passage of the emergency vehicles.		Emergency Vehicle	

Destination Component	Data Flow Name	Definition	Source Component
Other Transit Management Center(s)	Signal Priority Request	is a request to pre-empt intersection traffic signals. This request enables transit vehicles to return to schedule adherence & is lower in priority than an emergency vehicle signal pre-emption request.	Transit Vehicle
	Signal Timing Plan	consists of the implemented traffic control strategy in the form of a timing algorithm (cycle split, offset, etc)	Centralized Control Signal Center(s)
			Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Freeway Traffic Management Center
			Freeway Traffic Management Center
			Inter-Jurisdictional Traffic System
	Traffic Conditions	consists of information about flow of traffic for a pre-determined reporting area.	Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Freeway Traffic Management Center
			Inter-Jurisdictional Traffic System
			Other Transit Management Center(s)
	Traffic Surveillance Data	consists of processed and summarized information about vehicles or incidents that may effect the travel of drivers within a pre-defined geographic location. (e.g. speed, vehicle quantity, road density, time stamp, and location of where data is generated.	Centralized Control Signal Center(s)
		Centralized Control Signal Center(s)	
		Centralized Control Signal Center(s)	
		Decentralized Control Signal Center(s)	
		Decentralized Control Signal Center(s)	
		Decentralized Control Signal Center(s)	
		Freeway Traffic Management Center	

Destination Component	Data Flow Name	Definition	Source Component
Other Transit Management Center(s)	Traffic Surveillance Data	consists of processed and summarized information about vehicles or incidents that may effect the travel of drivers within a pre-defined geographic location. (e.g. speed, vehicle quantity, road density, time stamp, and location of where data is generated.	Freeway Traffic Management Center
			Freeway Traffic Management Center
			Inter-Jurisdictional Traffic System
			Inter-Jurisdictional Traffic system
			Maintenance Dispatch Center
			Tailored Traveler Information Provider(s)
	Training Completion	consists of identification of transit resources that have completed identified training.	Training Center
			Training Center
	Training Request	consists of a notice that particular resources are scheduled to attend a particular training activity.	Training Center
			Training Center
	Transfer Delay Request	consists of an inter-agency request to delay departure of a connecting vehicle to assist transfer when the originating vehicle is late.	Inter-Jurisdictional Transit System
			Inter-Jurisdictional Transit system
			Regional ITS Management Center
			Regional ITS Management Center
Transit Conditions	consists of information about transit vehicle schedule adherence, rideshare data, and transit provider information including but not limited to vehicle ID, transit stop, estimated vehicle arrival time, estimated vehicle departure time, current schedule.	Demand Responsive Transit Center(s)	
		Other Transit Management Center(s)	
		Regional ITS Management Center	
		Transit Service Provider(s)	
Transit Fares	consists of the specific prices charged for transit services	Regional ITS Management Center	

Destination Component	Data Flow Name	Definition	Source Component	
Other Transit Management Center(s)	Transit Route	consists of Fixed Routes and Flexible Routes information.	Regional ITS Management Center	
	Transit Route Schedule	consists of arrival/departure times for each transit stop location along each transit route as well as transfer information.	Regional ITS Management Center	
	Travel Conditions Request	is a request for travel conditions information. It can consist of a request for all basic travel conditions info or for travel conditions info. tailored to the user's specific needs (e-g-route, mode, jurisdiction)	User Interface Equipment	
	Travel Conditions- 1		consists of current/forecast information about traffic conditions, planned event information, incident conditions (e.g., accidents), transit conditions, road surface conditions, parking conditions (continued)	Other Transit Management Center(s)
				Tailored Traveler Information Provider(s)
				Tailored Traveler Information Provider(s)
				Tailored Traveler Information Provider(s)
	Travel Conditions-2		(continued) and weather that is customized to a user's specified trip and mode(s).	Other Transit Management Center(s)
				Tailored Traveler Information Provider(s)
				Tailored Traveler Information Provider(s)
				Tailored Traveler Information Provider(s)
	Trip Request		consists of a request for a tailored route, directions, and/or itinerary	Transit Information Distribution Equipment
				User Interface Equipment
	User Profile		consists of information specific to a user that uniquely identifies that user and their travel information preferences.	User Interface Equipment
	Vehicle Assignments		consists of assignment of vehicles to facilities jurisdictions, personnel, incidents, maintenance, training or available.	Regional ITS Management Center
	Vehicle Location		consists of information that indicates the location of each vehicle.	Regional ITS Management Center
				Transit Vehicle
				Transit Vehicle
	Vehicle Parameters		consists of raw (i.e. unsensed) environmental conditions associated with the vehicle (e.g. engine temp. door open/closed, vehicle position, velocity, acceleration, etc.).	Transit Vehicle
	Vehicle Pre-trip Inspection Report		consists of transit vehicle pre-trip inspection results	Transit Vehicle

Destination Component	Data Flow Name	Definition	Source Component
Other Transit Management Center(s)	Vehicle status	consists of maintenance conditions associated with the vehicle (including but not limited to fuel levels, brake status, mileage).	Transit Vehicle
	Weather Conditions	consists of current and/or forecast weather conditions such as rain, snow, fog, sunny, clear.	External Information Source(s)
			Other Transit Management Center(s)
			Road Weather Information Center
	Weather Surveillance Data	consists of current weather data as received from devices (e.g. radar, video).	Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Freeway Traffic Management Center
		Tailored Traveler Information Provider(s)	
Parking Management Center(s)	Account Validation Notice	consists of a confirmation that a user's bank account or credit card number is correct and valid.	Financial Institution(s)
	Account Validation Request	consists of a request to determine the validity of a user's bank account or credit card number.	Parking Management Roadside Equipment
	Authorized User List	consists of a list of authorized users for the specified service.	Account Management Provider(s)
	Incident Conditions	consists of stored information applicable to an active incident that has impact on current travel conditions	State Patrol Dispatch Center
	Link Reference Model	consists of a commonly defined set of point, linear, and area geographical locations, such as roadway links, which ITS systems use to share geographical information between themselves.	External Information Source(s)
	Parking Surveillance Data	consists of current counts on number of vehicles entering and exiting a parking lot as received from devices (e.g. parking lot gate)	Parking Management Roadside Equipment
	Planned Event Information	consists of information about construction and/or special events (e.g. sporting events, parades)	External Information Source(s)
			Maintenance Dispatch Center
			User Interface Equipment
	Pricing Requirements	consists of requirements for pricing transportation services.	Other Public Agencies
Parking Management Center(s)			

Destination Component	Data Flow Name	Definition	Source Component
Parking Management Center(s)	Pricing Requirements	consists of requirements for pricing transportation services.	User Interface Equipment
	Reservation/Ticket Request	consists of a request to a provider for a ticket or a reservation.	Tailored Traveler Information Provider(s)
			User Interface Equipment
	Road Surface Conditions	consists of current and/or forecast road conditions such as dry, wet, flooded, snow covered, slippery, plowed, salted, sanded (based on road surface surveillance data and weather forecasts).	Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Demand Responsive Transit Center(s)
			External Information Source(s)
			Freeway Traffic Management Center
			Inter-Jurisdictional Traffic System
			Maintenance Dispatch Center
			Other Transit Management Center(s)
			Regional ITS Management Center
			Road Weather Information Center
			State Patrol Dispatch Center
			Truck Center
	Service Payment	consists of payments for parking, tolls, transit fares, traveler information services.	Financial Institution(s)
			Parking Management Roadside Equipment
	Service Usage Data 1	consists of data required to generate a user's service invoice for services rendered as well as overall transit resource statistics, including trip origin and destination, departure and arrival time, vehicle % full at stop, (continued)	Parking Management Roadside Equipment
	Service Usage Data 2	(continued) number of passengers entering and exiting vehicle at stop, payment method, fare type, vehicle dwell time at stop, and wheel chair lift use at stop.	Parking Management Roadside Equipment
	Traffic Conditions	consists of information about flow of traffic for a pre-determined reporting area.	Centralized Control Signal Center(s)

Destination Component	Data Flow Name	Definition	Source Component
Parking Management Center(s)	Traffic Conditions	consists of information about flow of traffic for a pre-determined reporting area.	Decentralized Control Signal Center(s)
			Freeway Traffic Management Center
			Inter-Jurisdictional Traffic system
	Travel Conditions- 1	consists of current/forecast information about traffic conditions, planned event information, incident conditions (e.g., accidents), transit conditions, road surface conditions, parking conditions (continued)	Tailored Traveler Information Provider(s)
	Travel Conditions-2	(continued) and weather that is customized to a user's specified trip and mode(s).	Tailored Traveler Information Provider(s)
	User Profile	consists of information specific to a user that uniquely identifies that user and their travel information preferences.	User Interface Equipment
	Weather Conditions	consists of current and/or forecast weather conditions such as rain, snow, fog, sunny, clear.	External Information Source(s) Road Weather Information Center
Parking Management Roadside Equipment	Account Validation Notice	consists of a confirmation that a user's bank account or credit card number is correct and valid.	Parking Management Center(s)
	Payment Confirmation	consists of an acknowledgement that payment was received.	Parking Management Center(s)
	Service Payment	consists of payments for parking, tolls, transit fares, traveler information services.	Basic Vehicle Payment Instrument
	Service Usage Data 1	consists of data required to generate a user's service invoice for services rendered as well as overall transit resource statistics, including trip origin and destination, departure and arrival time, vehicle % full at stop, (continued)	Basic Vehicle Payment Instrument
	Service Usage Data 2	(continued) number of passengers entering and exiting vehicle at stop, payment method, fare type, vehicle dwell time at stop, and wheel chair lift use at stop.	Basic Vehicle Payment Instrument
	Travel Conditions-1	consists of current/forecast information about traffic conditions, planned event information, incident conditions (e.g., accidents), transit conditions, road surface conditions, parking conditions (continued)	Parking Management Center(s)
	Travel Conditions-2	(continued) and weather that is customized to a user's specified trip and mode(s).	Parking Management Center(s)
	Payment Instrument	Payment Confirmation	consists of an acknowledgement that payment was received.

Destination Component	Data Flow Name	Definition	Source Component
Payment Instrument	Payment Confirmation	consists of an acknowledgement that payment was received.	Toll Collection Roadside Equipment
			Transit Route Equipment
			Transit Vehicle
Regional ITS Management Center	Account Validation Notice	consists of a confirmation that a user's bank account or credit card number is correct and valid.	Financial Institution(s)
	Account Validation Request	consists of a request to determine the validity of a user's bank account or credit card number.	Transit Route Equipment
			Transit Vehicle
	Activation/Deactivation Request	consists of a request for activation/deactivation of an entire ATIS service <i>or</i> a rideshare provider profile	Transit Service Provider(s)
			User Interface Equipment
	Authorized User List	consists of a list of authorized users for the specified service.	Account Management Provider(s)
	Demand Responsive Response	provides a response to demand responsive request. This data indicates whether the vehicle driver confii or denies a real-time demand responsive ride request.	Transit Service Provider(s)
			Transit Vehicle
	Detour Request	is a request to provide an alternate route between two transit stops.	Transit Vehicle
			Transit Vehicle
			Transit Vehicle
	Detour Route	consists of an alternate route between an origin and destination. Used to route a vehicle around incidents/congestion, or to route a rideshare vehicle to pick up an additional customer.	Tailored Traveler Information Provider(s)
	Driver Criminal History	consists of transit personnel criminal history	External Information Source(s)
Driver License Expiration Data	consists of transit personnel driver license expiration data	External Information Source(s)	
Driver Shift Constraints	consists of information about driver's schedule preference, seniority, and garage assignment.	External Information Source(s)	
Drug/Alcohol Test Results	consists of transit personnel drug / alcohol test results	External Information Source(s)	
Equipment status	consists of the accumulated hours of usage and operator reported problems	Emergency Vehicle	
		Transit Vehicle	

Destination Component	Data Flow Name	Definition	Source Component
Regional ITS Management Center	Flight Arrival/Departure Times	consists of airline flight arrival / departure schedules	External Information Source(s)
	Incident Acknowledgement	consists of notification to the reporting source of the incident that incident data has been received and/or incident resources have been dispatched.	Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Demand Responsive Transit Center(s)
			Division of Emergency Management Center
			Freeway Traffic Management Center
			Incident Dispatch Center(s)
			Inter-Jurisdictional Incident Management system
			Maintenance Dispatch Center
			Regional ITS Management system
			State Patrol Dispatch Center
	Incident Conditions	consists of stored information applicable to an active incident that has impact on current travel conditions	Emergency Vehicle
			State Patrol Dispatch Center
			Transit Vehicle
	Incident Data	consists of information that is collected about an incident but may not be organized or stored in a repository. (e.g. incident location, type of incident and timestamp)	Broadcast Information Provider(s)
			Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Demand Responsive Transit Center(s)
			Division of Emergency Management Center
			Emergency Vehicle
		External Information Source(s)	
		Freeway Traffic Management Center	

Destination Component	Data Flow Name	Definition	Source Component
Regional ITS Management Center	Incident Data	consists of information that is collected about an incident but may not be organized or stored in a repository. (e.g. incident location, type of incident and timestamp)	Incident Dispatch Center(s)
			Inter-Jurisdictional Incident Management system
			Maintenance Dispatch Center
			Mayday Service Provider(s)
			Regional ITS Management system
			State Patrol Dispatch Center
			Transit Vehicle
			User Interface Equipment
	Incident Response Status	consists of ETAS of responding resources, current step of response procedure, and estimated time that the incident is cleared	Emergency Vehicle
	Link Reference Model	consists of a commonly defined set of point, linear, and area geographical locations, such as roadway links, which ITS systems use to share geographical information between themselves.	Transit Vehicle
			External Information Source(s)
			External Information Source(s)
External Information Source(s)			
External Information Source(s)			
Maintenance Completion	consists of status information pertaining to the maintenance recently performed on the vehicle.	Transit Maintenance Garage	
		Transit Maintenance Garage	
Maintenance Request	consists of request for preventive or on-demand maintenance on vehicles or equipment based on reported conditions, mileage, or hours of service.	Transit Maintenance Garage	
		Transit Maintenance Garage	
Mode Use Information	consists of information on how to use a specific transit mode (e.g. bus, train, etc.) such as rules for use, hours of operation, payment methods, etc.	Regional ITS Management system	
Moving Violations	consists of transit personnel moving violations history	External Information Source(s)	
Parking Fees	consists of the specific prices charged for parking services.	Parking Management Center(s)	

Destination Component	Data Flow Name	Definition	Source Component
Regional ITS Management Center	Personnel Assignments	consists of driver-to-run, driver-to-incident, supervisor-to-incident, maintenance personnel-to-incident, driver-to-training and supervisor-to-training assignments.	Other Transit Management Center(s)
	Personnel Availability Information	consists of transit personnel available for assignments	External Information Source(s)
	Planned Event Information	consists of information about construction and/or special events (e.g. sporting events, parades)	External Information Source(s)
			Maintenance Dispatch Center
			User Interface Equipment
			Demand Responsive Transit Center(s)
	Pricing Requirements	consists of requirements for pricing transportation services.	Other Public Agencies
			Other Transit Management Center(s)
			Transit Service Provider(s)
			User Interface Equipment
	Provider Profile	consists of information specific to a rideshare provider that uniquely identifies that provider and the services they provide. This data includes vehicle license plate number, vehicle make, vehicle color, driver ID, safety certification information	Transit Service Provider(s)
	Provider Validation Notice	consists of a confirmation that a provider's profile information is correct and valid.	External Information Source(s)
	Resource Location	consist of the location of vehicles, equipment and personnel	Emergency Vehicle
			Transit Vehicle
	Resource Request	consists of a request to provide personnel, vehicles, and equipment to an incident.	Centralized Control Signal Center(s)
			Centralized Control Signal Center(s)
			Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
Demand Responsive Transit Center(s)			

Destination Component	Data Flow Name	Definition	Source Component
Regional ITS Management Center	Resource Request	consists of a request to provide personnel, vehicles, and equipment to an incident.	Division of Emergency Management Center
			Division of Emergency Management Center
			Division of Emergency Management Center
			Emergency Vehicle
			Emergency Vehicle
			Emergency Vehicle
			External Information Source(s)
			External Information Source(s)
			External Information Source(s)
			Freeway Traffic Management Center
			Freeway Traffic Management Center
			Freeway Traffic Management Center
			Incident Dispatch Center(s)
			Incident Dispatch Center(s)
			Incident Dispatch Center(s)
			Inter-Jurisdictional Incident Management system
			Inter-Jurisdictional Incident Management System
			Inter-Jurisdictional Incident Management System
			Other Transit Management Center(s)
			State Patrol Dispatch Center
State Patrol Dispatch Center			
State Patrol Dispatch Center			
Transit Vehicle			
Transit Vehicle			

Destination Component	Data Flow Name	Definition	Source Component
Regional ITS Management Center	Resource Request	consists of a request to provide personnel, vehicles, and equipment to an incident.	Transit Vehicle
	Rideshare Completions	consists of an indication that a passenger completed a trip.	Transit Vehicle
	Rideshare Offer	consists of response to rideshare request. Includes trip itinerary, trip origin, destination and frequency, drop-off and pick-up times.	Transit Service Provider(s)
	Rideshare Request	consists of data used to specify a specific trip itinerary, & to reserve or cancel a seat on a vehicle. Includes reservation request, cancellation request, rider ID & constraints, trip origination, destination & frequency, drop-off and pick-up times	User Interface Equipment
	Road Construction Data	consists of transit vehicle report of witnessed significant road construction information.	Transit Vehicle
	Road Surface Conditions	consists of current and/or forecast road conditions such as dry, wet, flooded snow covered, slippery, plowed, salted, sanded (based on road surface surveillance data and weather forecasts).	Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Demand Responsive Transit Center(s)
			External Information Source(s)
			Freeway Traffic Management Center
			Inter-Jurisdictional Traffic System
			Maintenance Dispatch Center
			Other Transit Management Center(s)
			Road Weather Information Center
			State Patrol Dispatch Center
			Transit Service Provider(s)
			Truck Center
Road Surface Surveillance Data	consists of processed and summarized information that is created for describing the road surface conditions of a pre-determined location. (e.g. condition of road surface, road surface temperature, timestamp, & location)	Centralized Control Signal Center(s)	

Destination Component	Data Flow Name	Definition	Source Component
Regional ITS Management Center	Road Surface Surveillance Data	consists of processed and summarized information that is created for describing the road surface conditions of a pre-determined location. (e.g. condition of road surface, road surface temperature, timestamp, & location)	Decentralized Control Signal Center(s) Freeway Traffic Management Center Tailored Traveler Information Provider(s)
	Schedule Adherence Information	consists of information describing fleet schedule adherence indicating route segment running time, transit stop arrival time and transit stop departure time.	Demand Responsive Transit Center(s) Demand Responsive Transit Center(s) Other Transit Management Center(s) Other Transit Management Center(s)
	Service Payment	consists of payments for parking, tolls, transit fares, traveler information services.	Regional ITS Management Center Transit Service Provider(s) Transit Service Provider(s) Financial Institution(s) Transit Route Equipment Transit Vehicle
	Service Usage Data 1	consists of data required to generate a user's service invoice for services rendered as well as overall transit resource statistics, including trip origin and destination, departure and arrival time, vehicle % full at stop, (continued)	Transit Route Equipment Transit Vehicle
	Service Usage Data 2	(continued) number of passengers entering and exiting vehicle at stop, payment method, fare type, vehicle dwell time at stop, and wheel chair lift use at stop.	Transit Route Equipment Transit Vehicle
	Signal Pre-emption Request	is a request from emergency vehicle(s) for immediate pre-emption of intersection traffic signals. An emergency pre-emption request interrupts traffic signal timing plans to accommodate safe passage of the emergency vehicles.	Emergency Vehicle
	Signal Priority Request	is a request to pre-empt intersection traffic signals. This request enables transit vehicles to return to schedule adherence & is lower in priority than an emergency vehicle signal pre-emption request.	Transit Vehicle
	Signal Timing Plan	consists of the implemented traffic control strategy in the form of a timing algorithm (cycle split, offset, etc)	Centralized Control Signal Center(s)

Destination Component	Data Flow Name	Definition	Source Component		
Regional ITS Management Center	Signal Timing Plan	consists of the implemented traffic control strategy in the form of a timing algorithm (cycle split, offset, etc)	Centralized Control Signal Center(s)		
			Decentralized Control Signal Center(s)		
			Decentralized Control Signal Center(s)		
			Freeway Traffic Management Center		
			Freeway Traffic Management Center		
			Inter-Jurisdictional Traffic system		
			Inter-Jurisdictional Traffic system		
	Traffic Conditions	consists of information about flow of traffic for a pre-determined reporting area.	Centralized Control Signal Center(s)		
			Decentralized Control Signal Center(s)		
			Freeway Traffic Management Center		
			Inter-Jurisdictional Traffic System		
			Traffic Surveillance Data	consists of processed and summarized information about vehicles or incidents that may effect the travel of drivers within a pre-defined geographic location. (e.g. speed, vehicle quantity, road density, time stamp, and location of where data is generated.	Centralized Control Signal Center(s)
					Centralized Control Signal Center(s)
					Decentralized Control Signal Center(s)
Decentralized Control Signal Center(s)					
Decentralized Control Signal Center(s)					
Freeway Traffic Management Center					
Freeway Traffic Management Center					
Inter-Jurisdictional Traffic system					

Destination Component	Data Flow Name	Definition	Source Component
Regional ITS Management Center	Traffic Surveillance Data	consists of processed and summarized information about vehicles or incidents that may effect the travel of drivers within a pre-defined geographic location. (e.g. speed, vehicle quantity, road density, time stamp, and location of where data is generated	Inter-Jurisdictional Traffic System
			Maintenance Dispatch Center
			Tailored Traveler Information Provider(s)
	Training Completion	consists of identification of transit resources that have completed identified training.	Training Center
			Training Center
	Training Request	consists of a notice that particular resources are scheduled to attend a particular training activity.	Training Center
			Training Center
	Transfer Delay Request	consists of an inter-agency request to delay departure of a connecting vehicle to assist transfer when the originating vehicle is late.	Demand Responsive Transit Center(s)
			Other Transit Management Center(s)
			Regional ITS Management Center
			Transit Service Provider(s)
	Transit Conditions	consists of information about transit vehicle schedule adherence, rideshare data, and transit provider information including but not limited to vehicle ID, transit stop, estimated vehicle arrival time, estimated vehicle departure time, current schedule.	Demand Responsive Transit Center(s)
			Other Transit Management Center(s)
			Transit Service Provider(s)
	Transit Fares	consists of the specific prices charged for transit services	Other Transit Management Center(s)
Transit Route	consists of Fixed Routes and Flexible Routes information.	Other Transit Management Center(s)	
		Regional ITS Management Center	
Transit Route Schedule	consists of arrival/departure times for each transit stop location along each transit route as well as transfer information.	Other Transit Management Center(s)	
		Regional ITS Management center	
Travel Conditions Request	is a request for travel conditions information. It can consist of a request for all basic travel conditions info or for travel conditions info. tailored to the user's specific needs (e.g.route, mode, jurisdiction)	User Interface Equipment	

Destination Component	Data Flow Name	Definition	Source Component
Regional ITS Management Center	Travel Conditions-1	consists of current/forecast information about traffic conditions, planned event information, incident conditions (e.g., accidents), transit conditions, road surface conditions, parking conditions (continued)	Tailored Traveler Information Provider(s)
			Tailored Traveler Information Provider(s)
			Tailored Traveler Information Provider(s)
			Tailored Traveler Information Provider(s)
	Travel Conditions-2	(continued) and weather that is customized to a user's specified trip and mode(s).	Tailored Traveler Information Provider(s)
			Tailored Traveler Information Provider(s)
			Tailored Traveler Information Provider(s)
			Tailored Traveler Information Provider(s)
	Trip Request	consists of a request for a tailored route, directions, and/or itinerary	Transit Information Distribution Equipment
			User Interface Equipment
	User Profile	consists of information specific to a user that uniquely identifies that user and their travel information preferences.	Account Management Provider(s)
			User Interface Equipment
	Vehicle Assignments	consists of assignment of vehicles to facilities jurisdictions, personnel, incidents, maintenance, training or available.	Other Transit Management Center(s)
	Vehicle Location	consists of information that indicates the location of each vehicle.	Other Transit Management Center(s)
			Transit Vehicle
			Transit Vehicle
		Transit Vehicle	
Vehicle Parameters	consists of raw (i.e. unsensed environmental conditions associated with the vehicle (e.g. engine temp, door open/closed, vehicle position, velocity, acceleration, etc.).	Transit Vehicle	
		Transit Vehicle	
Vehicle Pre-trip Inspection Report	consists of transit vehicle pre-trip inspection results	Transit Vehicle	
Vehicle status	consists of maintenance conditions associated with the vehicle (including but not limited to fuel levels, brake status, mileage).	Transit Vehicle	
Weather Conditions	consists of current and/or forecast weather conditions such as rain, snow, fog, sunny, clear.	External Information Source(s)	

Destination Component	Data Flow Name	Definition	Source Component
Regional ITS Management Center	Weather Conditions	consists of current and/or forecast weather conditions such as rain, snow, fog, sunny, clear.	Road Weather Information Center
	Weather Surveillance Data	consists of current weather data as received from devices (e.g. radar, video).	Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Freeway Traffic Management Center
			Tailored Traveler Information Provider(s)
Regional ITS Management system	Incident Conditions	consists of stored information applicable to an active incident that has impact on current travel conditions	State Patrol Dispatch Center
	Incident Data	consists of information that is collected about an incident but may not be organized or stored in a repository. (e.g. incident location, type of incident and timestamp)	Broadcast Information Provider(s)
			Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Demand Responsive Transit Center(s)
			Division of Emergency Management Center
			External Information Source(s)
			Freeway Traffic Management Center
			Incident Dispatch Center(s)
			Inter-Jurisdictional Incident Management System
			Maintenance Dispatch Center
			Mayday Service Provider(s)
			Other Transit Management Center(s)
			Regional ITS Management Center
			State Patrol Dispatch Center
		User Interface Equipment	

Destination Component	Data Flow Name	Definition	Source Component
Regional ITS Management system	Incident History	Historical data describing an incident or series of incidents. Data is obtained from incident report, incident files, and the incident log.	Regional ITS Management System
	Link Reference Model	consists of a commonly defined set of point, linear, and area geographical locations, such as roadway links, which ITS systems use to share geographical information between themselves.	External Information Source(s)
			External Information Source(s)
			External Information Source(s)
			External Information Source(s)
	Mode Use Information	consists of information on how to use a specific transit mode (e.g. bus, train, etc.) such as rules for use, hours of operation, payment methods, etc.	Demand Responsive Transit Center(s)
			Other Transit Management Center(s)
			Other Transit Management Center(s)
			Regional ITS Management Center
			Regional ITS Management Center
			Transit Service Provider(s)
	Parking Conditions	consists of information about parking availability and parking lot status (e.g open, closed)	Parking Management Center(s)
	Parking Data	consists of information about parking lot location, parking rates, hours of operation and any special services that may be offered.	Parking Management Center(s)
	Parking Fees	consists of the specific prices charged for parking services.	Parking Management Center(s)
	Planned Event Information	consists of information about construction and/or special events (e.g. sporting events, parades)	External Information Source(s)
		Maintenance Dispatch Center	
Road Surface Conditions	consists of current and/or forecast road conditions such as dry, wet, flooded, snow covered, slippery, plowed, salted, sanded (based on road surface surveillance data and weather forecasts).	Centralized Control Signal Center(s)	
		Decentralized Control Signal Center(s)	
		Demand Responsive Transit Center(s)	

Destination Component	Data Flow Name	Definition	Source Component
Regional ITS Management system	Road Surface Conditions	consists of current and/or forecast road conditions such as dry, wet, flooded, snow covered, slippery, plowed, salted, sanded (based on road surface surveillance data and weather forecasts).	External Information Source(s)
			Freeway Traffic Management Center
			Inter-Jurisdictional Traffic system
			Maintenance Dispatch Center
			Other Transit Management Center(s)
			Regional ITS Management Center
			Road Weather Information Center
			State Patrol Dispatch center
			Transit Service Provider(s)
			Truck Center
	Road Surface Surveillance Data	consists of processed and summarized information that is created for describing the road surface conditions of a pre-determined location. (e.g. condition of road surface, road surface temperature, timestamp, & location)	Road Weather Information Center
	Tolls	consist of the specific prices charged for use of a roadway	Toll Authority Center(s)
	Traffic Conditions	consists of information about flow of traffic for a pre-determined reporting area.	Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
Freeway Traffic Management Center			
		Inter-Jurisdictional Traffic system	
Traffic Surveillance Data	consists of processed and summarized information about vehicles or incidents that may effect the travel of drivers within a pre-defined geographic location. (e.g. speed, vehicle quantity, road density, time stamp, and location of where data is generated.	Centralized Control Signal Center(s)	
		Decentralized Control Signal Center(s)	
		Freeway Traffic Management Center	

Destination Component	Data Flow Name	Definition	Source Component
Regional ITS Management System	Transit Conditions	consists of information about transit vehicle schedule adherence, rideshare data, and transit provider information including but not limited to vehicle ID, transit stop, estimated vehicle arrival time, estimated vehicle departure time, current schedule.	Demand Responsive Transit Center(s)
			Other Transit Management Center(s)
			Regional ITS Management Center
			Transit Service Provider(s)
	Transit Fares	consists of the specific prices charged for transit services	Other Transit Management Center(s)
			Regional ITS Management Center
	Transit Route	consists of Fixed Routes and Flexible Routes information.	Other Transit Management Center(s)
			Regional ITS Management Center
	Transit Route Schedule	consists of arrival/departure times for each transit stop location along each transit route as well as transfer information.	Other Transit Management Center(s)
			Regional ITS Management Center
	Travel Conditions-	consists of current/forecast information about traffic conditions, planned event information, incident conditions (e.g., accidents), transit conditions, road surface conditions, parking conditions (continued)	Tailored Traveler Information Provider(s)
	Travel Conditions-2	(continued) and weather that is customized to a user's specified trip and mode(s).	Tailored Traveler Information Provider(s)
	Travel Effects Rules	consists of rules to help determine the effects of travel conditions along a mode segment.	Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Freeway Traffic Management Center
		Maintenance Dispatch Center	
		Other Transit Management Center(s)	
		Regional ITS Management Center	
		State Patrol Dispatch Center	
		Truck Center	

Destination Component	Data Flow Name	Definition	Source Component
Regional ITS Management system	Trip Alternative Rules	consists of rules to assist in determining the traveler's alternatives.	Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Freeway Traffic Management Center
			Maintenance Dispatch Center
			Other Transit Management Center(s)
			Regional ITS Management Center
			State Patrol Dispatch Center
	Weather Conditions	consists of current and/or forecast weather conditions such as rain, snow, fog, sunny clear.	External Information Source(s)
			Road Weather Information Center
	Weather Surveillance Data	consists of current weather data as received from devices (e.g. radar, video).	Road Weather Information center
Rideshare Center	Activation/Deactivation Request	consists of a request for activation/deactivation of an entire ATIS service or a rideshare provider profile	User Interface Equipment
	Authorized User List	consists of a list of authorized users for the specified service.	Account Management Provider(s)
	Provider Profile	consists of information specific to a rideshare provider that uniquely identifies that provider and the services they provide. This data includes vehicle license plate number, vehicle make, vehicle color, driver ID, safety certification information	User Interface Equipment
	Provider Validation Notice	consists of a confirmation that a providers profile information is correct and valid.	External Information Source(s)
	Rideshare Completions	consists of an indication that a passenger completed a trip.	User Interface Equipment
	Rideshare Offer	consists of response to rideshare request. Includes trip itinerary, trip origin, destination and frequency, drop-off and pick-up times.	User Interface Equipment
	Rideshare Request	consists of data used to specify a specific trip itinerary, & to reserve or cancel a seat on a vehicle. Includes reservation request, cancellation request, rider ID & constraints, trip origination, destination & frequency, drop-off and pick-up times	User Interface Equipment

Destination Component	Data Flow Name	Definition	Source Component
Rideshare Center	Transit Route	consists of Fixed Routes and Flexible Routes information.	Other Transit Management Center(s) Regional ITS Management Center
	Transit Route Schedule	consists of arrival/departure times for each transit stop location along each transit route as well as transfer information.	Other Transit Management Center(s) Regional ITS Management Center
	User Profile	consists of information specific to a user that uniquely identifies that user and their travel information preferences.	Account Management Provider(s) User Interface Equipment
			User Interface Equipment
Road Maintenance Roadside Equipment	Manual Override	consists of the system users who have the authority to override the traffk system for maintenance, unplanned traffic timing plans, or incidents-	User Interface Equipment
	Signal Pre-emption Request	is a request from emergency vehicle(s) for immediate pre-emption of intersection traffic signals. An emergency pre-emption request interrupts traffic signal timing plans to accommodate safe passage of the emergency vehicles.	Emergency Vehicle
	Signal Priority Request	is a request to pre-empt intersection traffic signals. This request enables transit vehicles to return to schedule adherence & is lower in priority than an emergency vehicle signal pre-emption request.	Transit Vehicle
	Signal Timing Plan	consists of the implemented traffic control strategy in the form of a timing algorithm (cycle split, offset, etc)	Maintenance Dispatch Center
	Signing Plan	consists of information messages and under what conditions which signs may be used to provide driver notification for unplanned traffic or road conditions.	Maintenance Dispatch Center
	Traffic Data	consists of traffic related information that is created for describing the traffic conditions of a pre-determined location. (e.g. speed, vehicle quantity,density,time stamp, & location of where the data is generated).	Probe Vehicle User Interface Equipment
	Traffic Surveillance Control	consists of control information for operating traffic signal systems	Maintenance Dispatch Center
	Travel Conditions-1	consists of current/forecast information about traffic conditions, planned event information, incident conditions (e.g., accidents), transit conditions, road surface conditions, parking conditions (continued)	Maintenance Dispatch Center Maintenance Dispatch Center
	Travel Conditions-2	(continued) and weather that is customized to a user's specified trip and mode(s).	Maintenance Dispatch Center

Destination Component	Data Flow Name	Definition	Source Component
Road Maintenance Roadside Equipment	Travel Conditions-2	(continued) and weather that is customized to a user's specified trip and mode(s).	Maintenance Dispatch Center
Road Weather Information Center	Link Reference Model	consists of a commonly defined set of point, linear, and area geographical locations, such as roadway links, which ITS systems use to share geographical information between themselves.	External Information Source(s)
	Road Surface Conditions	consists of current and/or forecast road conditions such as dry, wet, flooded, snow covered, slippery, plowed, salted, sanded (based on road surface surveillance data and weather forecasts).	Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Demand Responsive Transit Center(s)
	-		External Information Source(s)
			Freeway Traffic Management Center
			Inter-Jurisdictional Traffic System
			Maintenance Dispatch Center
			Other Transit Management Center(s)
			Regional ITS Management Center
			State Patrol Dispatch Center
			Truck Center
Road Surface Surveillance Data		consists of processed and summarized information that is created for describing the road surface conditions of a pre-determined location. (e.g. condition of road surface, road surface temperature, timestamp, & location)	Road Weather Roadside Equipment
Travel Conditions-1		consists of current/forecast information about traffic conditions, planned event information, incident conditions (e.g., accidents), transit conditions, road surface conditions, parking conditions (continued)	Tailored Traveler Information Provider(s)
Travel Conditions-2		(continued) and weather that is customized to a user's specified trip and mode(s).	Tailored Traveler Information Provider(s)
Weather Conditions		consists of current and/or forecast weather conditions such as rain, snow, fog, sunny, clear.	External Information Source(s)
Weather Surveillance Data		consists of current weather data as received from devices (e.g. radar, video).	Road Weather Roadside Equipment

Destination Component	Data Flow Name	Definition	Source Component				
State Patrol Dispatch Center	Equipment Location	consists of the location of the equipment	Emergency Vehicle				
	Equipment status	consists of the accumulated hours of usage and operator reported problems	Emergency Vehicle				
	Incident Acknowledgement		consists of notification to the reporting source of the incident that incident data has been received and/or incident resources have been dispatched.	Centralized Control Signal Center(s)			
				Decentralized Control Signal Center(s)			
				Demand Responsive Transit Center(s)			
				Division of Emergency Management Center			
				Freeway Traffic Management Center			
				Incident Dispatch Center(s)			
				Inter-Jurisdictional Incident Management System			
				Maintenance Dispatch Center			
				Other Transit Management Center(s)			
				Regional ITS Management Center			
				Regional ITS Management System			
				Incident Conditions		consists of stored information applicable to an active incident that has impact on current travel conditions	Centralized Control Signal Center(s)
							Decentralized Control Signal Center(s)
	Freeway Traffic Management Center						
	Freeway Traffic Management Center						
	User Interface Equipment						
	Incident Data		consists of information that is collected about an incident but may not be organized or stored in a repository. (e.g. incident location, type of incident and timestamp)				Broadcast Information Provider(s)
							Centralized Control Signal Center(s)
Centralized Control Signal Center(s)							

Destination Component	Data Flow Name	Definition	Source Component
State Patrol Dispatch Center		Incident Data consists of information that is collected about an incident but may not be organized or stored in a repository. (e.g. incident location, type of incident and timestamp)	Decentralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Demand Responsive Transit Center(s)
			Division of Emergency Management Center
			Emergency Vehicle
			Emergency Vehicle
			External Information Source(s)
			Freeway Traffic Management Center
			Freeway Traffic Management Center
			Incident Dispatch Center(s)
			Inter-Jurisdictional Incident Management system
			Inter-Jurisdictional Traffic System
			Maintenance Dispatch Center
			Maintenance Dispatch center
			Mayday Service Provider(s)
			Other Transit Management Center(s)
			Regional ITS Management Center
			Regional ITS Management system
			User Interface Equipment
			Incident Response Status
Link Reference Model	consists of a commonly defined set of point, linear, and area geographical locations, such as roadway links, which ITS systems use to share geographical information between themselves.	External Information Source(s)	
		External Information Source(s)	

Destination Component	Data Flow Name	Definition	Source Component			
State Patrol Dispatch Center	Personnel Assignments	consists of driver-to-run, driver-to-incident, supervisor-to-incident, maintenance personnel-to-incident, driver-to-training, and supervisor-to-training assignments.	Demand Responsive Transit Center(s)			
			Demand Responsive Transit Center(s)			
			Division of Emergency Management Center			
			Freeway Traffic Management Center			
			Incident Dispatch Center(s)			
			Other Transit Management Center(s)			
			Other Transit Management Center(s)			
			Regional ITS Management Center			
			Regional ITS Management Center			
			Regional ITS Management Center			
			Transit Service Provider(s)			
			Planned Event Information	consists of information about construction and/or special events (e.g. sporting events, parades)		External Information Source(s)
						Maintenance Dispatch Center
User Interface Equipment						
Resource Request	consists of a request to provide personnel, vehicles, and equipment to an incident.		Centralized Control Signal Center(s)			
			Decentralized Control Signal Center(s)			
			Division of Emergency Management Center			
			Emergency Vehicle			
			External Information Source(s)			
			Freeway Traffic Management Center			
			Incident Dispatch Center(s)			
			Inter-Jurisdictional Incident Management system			
			Other Transit Management Center(s)			

Destination Component	Data Flow Name	Definition	Source Component	
State Patrol Dispatch Center	Resource Request	consists of a request to provide personnel, vehicles, and equipment to an incident.	Regional ITS Management Center	
	Road Surface Conditions			Centralized Control Signal Center(s)
				Decentralized Control Signal Center(s)
				Demand Responsive Transit Center(s)
				External Information Source(s)
				Freeway Traffic Management Center
				Inter-Jurisdictional Traffic System
				Maintenance Dispatch Center
				Other Transit Management Center(s)
				Regional ITS Management Center
				Road Weather Information Center
	Truck Center			
	User Interface Equipment			
	Road Surface Surveillance Data	consists of processed and summarized information that is created for describing the road surface conditions of a pre-determined location. (e.g. condition of road surface, road surface temperature, timestamp, & location)	Centralized Control Signal Center(s)	
				Decentralized Control Signal Center(s)
Freeway Traffic Management Center				
Tailored Traveler Information Provider(s)				
Signal Pre-emption Request	is a request from emergency vehicle(s) for immediate pre-emption of intersection traffic signals. An emergency pre-emption request interrupts traffic signal timing plans to accommodate safe passage of the emergency vehicles.	Emergency Vehicle		
Traffic Conditions			Centralized Control Signal Center(s)	
			Decentralized Control Signal Center(s)	

Destination Component	Data Flow Name	Definition	Source Component
State Patrol Dispatch Center	Traffic Conditions	consists of information about flow of traffic for a pre-determined reporting area.	Freeway Traffic Management Center Inter-Jurisdictional Traffic system
	Traffic Surveillance Data	consists of processed and summarized information about vehicles or incidents that may effect the travel of drivers within a pre-defined geographic location. (e.g. speed, vehicle quantity, road density, time stamp, and location of where data is generated.	Centralized Control Signal Center(s) Decentralized Control Signal Center(s)
			Freeway Traffic Management Center
			Tailored Traveler Information Provider(s)
	Travel Conditions Request	is a request for travel conditions information. It can consist of a request for all basic travel conditions info or for travel conditions info. tailored to the user's specific needs (e.g.route, mode, jurisdiction)	Emergency Vehicle User Interface Equipment
	Travel Conditions-1	consists of current/forecast information about traffic conditions, planned event information incident conditions (e.g., accidents), transit conditions, road surface conditions, parking conditions (continued)	Freeway Traffic Management Center Tailored Traveler Information Provider(s)
	Travel Conditions-2	(continued) and weather that is customized to a user's specified trip and mode(s).	Freeway Traffic Management Center Tailored Traveler Information Provider(s)
	Vehicle Assignments	consists of assignment of vehicles to facilities jurisdictions, personnel, incidents, maintenance, training or available.	Demand Responsive Transit Center(s) Demand Responsive Transit Center(s) Division of Emergency Management Center Freeway Traffic Management Center Incident Dispatch Center(s) Other Transit Management Center(s) Other Transit Management Center(s) Regional ITS Management Center

Destination Component	Data Flow Name	Definition	Source Component	
State Patrol Dispatch Center	Vehicle Assignments	consists of assignment of vehicles to facilities, jurisdictions, personnel, incidents, maintenance, training or available.	Regional ITS Management Center	
			Regional ITS Management Center	
				Transit Service Provider(s)
	Vehicle Location	consists of information that indicates the location of each vehicle.	Demand Responsive Transit Center(s)	
			Demand Responsive Transit Center(s)	
			Division of Emergency Management Center	
			Emergency Vehicle	
			Freeway Traffic Management Center	
			Incident Dispatch Center(s)	
			Other Transit Management Center(s)	
			Regional ITS Management Center	
			Regional ITS Management Center	
			Transit Service Provider(s)	
			Emergency Vehicle	
			External Information Source(s)	
Road Weather Information Center				
Weather Surveillance Data	consists of current weather conditions such as rain, snow, fog, sunny, clear.	Centralized Control Signal Center(s)		
		Decentralized Control Signal Center(s)		
		Freeway Traffic Management Center		
		Tailored Traveler Information Provider(s)		
Tailored Traveler Information Provider(s)	Account Validation Notice	consists of a confirmation that a user's bank account or credit card number is correct and valid.	Financial Institution(s)	

Destination Component	Data Flow Name	Definition	Source Component
Tailored Traveler Information Provider(s)	Activation/Deactivation Request	consists of a request for activation/deactivation of an entire ATIS service or a rideshare provider profile	User Interface Equipment
	Airline Data	consists of contact information for an airline as well as information about flight schedules, arrival, departure times, and ticket prices.	External Information Source(s)
	Authorized User List	consists of a list of authorized users for the specified service.	Account Management Provider(s)
	Detour Request	is a request to provide an alternate route between two transit stops.	Demand Responsive Transit Center(s)
			Other Transit Management Center(s)
			Regional ITS Management Center
			Transit Service Provider(s)
	Emergency Medical Facilities Data	consists of information about facilities that provide emergency medical treatment.	External Information Source(s)
	Entertainment Data	consists of information about facilities that provide entertainment services (e.g. type of entertainment, location of facility, phone number, etc).	External Information Source(s)
	Fuel/Vehicle Services Data	consists of information about facilities for fuel and vehicle repair services.	External Information Source(s)
	Incident Conditions	consists of stored information applicable to an active incident that has impact on current travel conditions	Regional ITS Management system
	Link Reference Model	consists of a commonly defined set of point, linear, and area geographical locations, such as roadway links, which ITS systems use to share geographical information between themselves.	External Information Source(s)
			External Information Source(s)
			External Information Source(s)
	Lodging/Camping Data	consists of information about lodging and camping facilities.	External Information Source(s)
Mode Use Information	consists of information on how to use a specific transit mode (e.g. bus, train, etc.) such as rules for use, hours of operation, payment methods, etc.	Regional ITS Management System	
		Regional ITS Management System	
		Transit Service Provider(s)	
Parking Conditions	consists of information about parking availability and parking lot status (e.g open, closed)	Regional ITS Management System	

Destination Component	Data Flow Name	Definition	Source Component
Tailored Traveler Information Provider(s)	Parking Data	consists of information about parking lot location, parking rates, hours of operation and any special services that may be offered.	Regional ITS Management System
	Parking Fees	consists of the specific prices charged for parking services.	Regional ITS Management system
	Planned Event Data	consists of information about special events (e.g. sporting events, parades).	External Information Source(s)
	Planned Event Information	consists of information about construction and/or special events (e.g. sporting events, parades)	External Information Source(s)
			Regional ITS Management system
			User Interface Equipment
	Pricing Requirements	consists of requirements for pricing transportation services.	User Interface Equipment
	Recreational Areas Data	consists of information about recreation facilities such as parks, trails, etc.	External Information Source(s)
	Rental Vehicle Data	consists of contact information for rental vehicle companies as well as information on rates and availability of vehicles.	External Information Source(s)
	Reservation/Ticket Confirmation	consists of an acknowledgement that a reservation has been made or a ticket has been purchased	External Information Source(s)
			Parking Management Center(s)
	Restaurant Data	consists of information about restaurant facilities.	External Information Source(s)
	Road Surface Conditions	consists of current and/or forecast road conditions such as dry, wet, flooded, snow covered, slippery, plowed, salted, sanded (based on road surface surveillance data and weather forecasts).	External Information Source(s)
			Regional ITS Management System
			User Interface Equipment
	Road Surface Surveillance Data	consists of processed and summarized information that is created for describing the road surface conditions of a pre-determined location. (e.g. condition of road surface, road surface temperature, timestamp, & location)	Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
		Freeway Traffic Management Center	
		Information Provider Roadside Equipment	

Destination Component	Data Flow Name	Definition	Source Component
Tailored Traveler Information Provider(s)	Service Payment	consists of payments for parking, tolls, transit fares, traveler information services.	Financial Institution(s)
	Shopping Data	consists of information about shopping facilities such as malls, outlets, etc.	External Information Source(s)
	Tolls	consist of the specific prices charged for use of a roadway	Regional ITS Management system Toll Authority Center(s)
	Tourist Sight Data	consists of information about tourist sights such as museums, monuments, historical sights, etc.	External Information Source(s)
	Traffic Conditions	consists of information about flow of traffic for a pre-determined reporting area.	Centralized Control Signal Center(s) Decentralized Control Signal Center(s) Freeway Traffic Management Center Regional ITS Management system
	Traffic Surveillance Data	consists of processed and summarized information about vehicles or incidents that may effect the travel of drivers within a pre-defined geographic location (e.g. speed, vehicle quantity, road density, time stamp, and location of where data is generated.	Centralized Control Signal Center(s) Decentralized Control Signal Center(s) Freeway Traffic Management Center Information Provider Roadside Equipment
	Transit Conditions	consists of information about transit vehicle schedule adherence, rideshare data, and transit provider information including but not limited to vehicle ID, transit stop, estimated vehicle arrival time, estimated vehicle departure time, current schedule.	Other Transit Management Center(s) Regional ITS Management Center Regional ITS Management system
	Transit Fares	consists of the specific prices charged for transit services	Regional ITS Management system
	Transit Route	consists of Fixed Routes and Flexible Routes information.	Regional ITS Management Center Regional ITS Management system

Destination Component	Data Flow Name	Definition	Source Component
Tailored Traveler Information Provider(s)	Transit Route Schedule	consists of arrival/departure times for each transit stop location along each transit route as well as transfer information.	Regional ITS Management Center
			Regional ITS Management System
	Travel Conditions Request	is a request for travel conditions information. It can consist of a request for all basic travel conditions info or for travel conditions info. tailored to the user's specific needs (e.g.route, mode, jurisdiction)	Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Demand Responsive Transit Center(s)
			Demand Responsive Transit Center(s)
			Demand Responsive Transit Center(s)
			Freeway Traffic Management Center
			Information Provider(s)
			Inter-Jurisdictional Traffic System
			Inter-Jurisdictional Transit System
			Maintenance Dispatch Center
			Other Transit Management Center(s)
			Other Transit Management Center(s)
			Other Transit Management Center(s)
			Parking Management Center(s)
			Regional ITS Management Center
			Regional ITS Management Center
			Regional ITS Management Center
			Regional ITS Management Center
Road Weather Information Center			

Destination Component	Data Flow Name	Definition	Son&e Component
Tailored Traveler Information Provider(s)	Travel Conditions Request	is a request for travel conditions information. It can consist of a request for all basic travel conditions info or for travel conditions info. tailored to the user's specific needs (e. g. route, mode, jurisdiction)	State Patrol Dispatch Center
			Transit Information Distribution Equipment
			Transit Service Provider(s)
			Transit Service Provider(s)
			Transit Service Provider(s)
			Truck Center
			User Interface Equipment
			User Interface Equipment
	Travel Effects Rules	consists of rules to help determine the effects of travel conditions along a mode segment.	Regional ITS Management System
	Traveler Services Request	consists of a request for any yellow pages or other traveler information (i.e. medical facilities, airline, rental car, etc.)	User Interface Equipment
Trip Alternative Rules	consists of rules to assist in determining the traveler's alternatives.	External Information Source(s)	
		Regional ITS Management System	
Trip Request	consists of a request for a tailored route, directions, and/or itinerary.	Transit Information Distribution Equipment	
		User Interface Equipment	
User Profile	consists of information specific to a user that uniquely identifies that user and their travel information preferences.	Account Management Provider(s)	
		User Interface Equipment	
Weather Conditions	consists of current and/or forecast weather conditions such as rain, snow, fog, sunny clear.	External Information Source(s)	
		Regional ITS Management system	
Weather Surveillance Data	consists of current weather data as received from devices (e.g. radar, video).	Centralized Control Signal Center(s)	
		Decentralized Control Signal Center(s)	
		Freeway Traffic Management Center	
		Information Provider Roadside Equipment	

Destination Component	Data Flow Name	Definition	Source Component
Toll Authority Center(s)	Account Validation Notice	consists of a confirmation that a user's bank account or credit card number is correct and valid.	Financial Institution(s)
	Account Validation Request	consists of a request to determine the validity of a user's bank account or credit card number.	Toll Collection Roadside Equipment
	Authorized User List	consists of a list of authorized users for the specified service.	Account Management Provider(s)
	Pricing Requirements	consists of requirements for pricing transportation services.	Other Public Agencies
			Toll Authority Center(s)
			User Interface Equipment
	Service Payment	consists of payments for parking, tolls, transit fares, traveler information services.	Financial Institution(s)
			Toll Collection Roadside Equipment
Toll Collection Roadside Equipment	Service Usage Data 1	consists of data required to generate a user's service invoice for services rendered as well as overall transit resource statistics, including trip origin and destination, departure and arrival time, vehicle % full at stop, (continued)	Toll Collection Roadside Equipment
	Service Usage Data 2	(continued) number of passengers entering and exiting vehicle at stop, payment method, fare type, vehicle dwell time at stop, and wheel chair lift use at stop.	Toll Collection Roadside Equipment
	User Profile	consists of information specific to a user that uniquely identifies that user and their travel information preferences.	User Interface Equipment
	Account Validation Notice	consists of a confirmation that a user's bank account or credit card number is correct and valid.	Toll Authority Center(s)
Toll Authority Center(s)	Payment Confirmation	consists of an acknowledgement that payment was received.	Toll Authority Center(s)
	Service Payment	consists of payments for parking, tolls, transit fares, traveler information services.	Basic Vehicle
			Payment Instrument
	Service Usage Data 1	consists of data required to generate a user's service invoice for services rendered as well as overall transit resource statistics, including trip origin and destination, departure and arrival time, vehicle % full at stop, (continued)	Basic Vehicle
			Payment Instrument
	Service Usage Data 2	(continued) number of passengers entering and exiting vehicle at stop, payment method, fare type, vehicle dwell time at stop, and wheel chair lift use at stop.	Basic Vehicle
		Payment Instrument	
Traffic Signal Center	Equipment status	consists of the accumulated hours of usage and operator reported problems	Centralized Roadside Equipment

Destination Component	Data Flow Name	Definition	Source Component
Traffic Signal Center	Equipment Status	consists of the accumulated hours of usage and operator reported problems	Decentralized Roadside Equipment
	Incident Conditions	consists of stored information applicable to an active incident that has impact on current travel conditions	Centralized Roadside Equipment
			Decentralized Roadside Equipment
	Incident Data	consists of information that is collected about an incident but may not be organized or stored in a repository. (e.g. incident location, type of incident and timestamp)	Centralized Roadside Equipment
			Decentralized Roadside Equipment
	Travel Conditions-1	consists of current/forecast information about traffic conditions, planned event information, incident conditions (e.g., accidents), transit conditions, road surface conditions, parking conditions (continued)	Centralized Roadside Equipment
			Decentralized Roadside Equipment
	Travel Conditions-2	(continued) and weather that is customized to a user's specified trip and mode(s).	Centralized Roadside Equipment
			Decentralized Roadside Equipment
Training Center	Personnel Assignments	consists of driver-to-run, driver-to-incident, supervisor-to-incident, maintenance personnel-to-incident, driver-to-training, and supervisor-to-training assignments.	Demand Responsive Transit Center(s)
			Other Transit Management Center(s)
			Other Transit Management Center(s)
			Regional ITS Management Center
			Regional ITS Management Center
Transit Information Distribution Equipment	Emergency Medical Facilities Data	consists of information about facilities that provide emergency medical treatment.	External Information Source(s)
	Entertainment Data	consists of information about facilities that provide entertainment services (e.g. type of entertainment, location of facility, phone number, etc).	External Information Source(s)
	Link Reference Model	consists of a commonly defined set of point, linear, and area geographical locations, such as roadway links, which ITS systems use to share geographical information between themselves.	External Information Source (s)
			External Information Source(s)

Destination Component	Data Flow Name	Definition	Source Component
Transit Information Distribution Equipment	Lodging/Camping Data	consists of information about lodging and camping facilities.	External Information Source (s)
	Mode Use Information	consists of information on how to use a specific transit mode (e.g. bus, train, etc.) such as rules for use, hours of operation, payment methods, etc.	Regional ITS Management system
			Regional ITS Management system
	Parking Fees	consists of the specific prices charged for parking services.	Parking Management Center(s)
	Planned Event Data	consists of information about special events (e.g. sporting events, parades).	External Information Source (s)
	Recreational Areas Data	consists of information about recreation facilities such as parks, trails, etc.	External Information Source(s)
	Restaurant Data	consists of information about restaurant facilities.	External Information Source(s)
	Shopping Data	consists of information about shopping facilities such as malls, outlets, etc.	External Information Source (s)
	Tailored Directions	consists of step-by-step instructions that guide a user from their specified origin to their specified destination, using multiple transportation modes (if necessary).	Information Provider(s)
			Other Transit Management Center(s)
			Regional ITS Management Center
			Tailored Traveler Information Provider(s)
	Tailored Route	consists of a course of travel from the user's specified point of origin to their specified destination using multiple transportation modes (if desired).	Information Provider(s)
			Other Transit Management Center(s)
			Regional ITS Management Center
			Tailored Traveler Information Provider(s)
Tailored Trip Itinerary	consists of all information about a user's specific trip and mode(s) including route (w/map), directions, schedule (and date) information, information about destination point(s) and points of interest, etc.	Information Provider(s)	
		Other Transit Management Center(s)	
		Regional ITS Management Center	

Destination Component	Data Flow Name	Definition	Source Component
Transit Information Distribution Equipment	Tailored Trip Itinerary	consists of all information about a user's specific trip and mode(s) including route (w/map), directions, schedule (and date) information, information about destination point(s) and points of interest, etc.	Tailored Traveler Information Provider(s)
	Tourist Sight Data	consists of information about tourist sights such as museums, monuments, historical sights, etc.	External Information Source (s)
	Transit Fares	consists of the specific prices charged for transit services	Other Transit Management Center(s)
			Regional ITS Management Center
	Transit Route	consists of Fixed Routes and Flexible Routes information.	Regional ITS Management system
	Transit Route Schedule	consists of arrival/departure times for each transit stop location along each transit route as well as transfer information	Regional ITS Management System
	Travel Conditions-1	consists of current/forecast information about traffic conditions, planned event information, incident condition (e.g., accidents), transit conditions, road surface conditions, parking conditions (continued)	Demand Responsive Transit Center(s)
			Other Transit Management Center(s)
			Regional ITS Management Center
			Tailored Traveler Information Provider(s)
			Demand Responsive Transit Center(s)
	Transit Maintenance Garage	Travel Conditions-2	(continued) and weather that is customized to a user's specified trip and mode(s).
			Other Transit Management Center(s)
			Regional ITS Management Center
			Tailored Traveler Information Provider(s)
Vehicle Assignments		consists of assignment of vehicles to facilities jurisdictions, personnel, incidents, maintenance, training or available.	Demand Responsive Transit Center(s)
			Other Transit Management Center(s)
		Other Transit Management Center(s)	
		Regional ITS Management Center	
		Regional ITS Management Center	

Destination Component	Data Flow Name	Definition	Source Component
Transit Maintenance Garage	Vehicle Location	consists of information that indicates the location of each vehicle.	Other Transit Management Center(s) Regional ITS Management Center
	Vehicle Parameters	consists of raw (i.e. unsensed) environmental conditions associated with the vehicle (e.g. engine temp, door open/closed vehicle position, velocity, acceleration, etc.).	Other Transit Management Center(s) Regional ITS Management center
	Vehicle Pre-trip Inspection Report	consists of transit vehicle pre-trip inspection results	Other Transit Management Center(s) Regional ITS Management Center
	Vehicle Status	consists of maintenance conditions associated with the vehicle (including but not limited to fuel levels, brake status, mileage).	Demand Responsive Transit Cent&(s) Other Transit Management Center(s) Other Transit Management Center(s) Regional ITS Management Center Regional ITS Management Center
Transit Route Equipment	Account Validation Notice	consists of a confirmation that a user's bank account or credit card number is correct and valid.	Other Transit Management Center(s) Regional ITS Management Center
	Payment Confirmation	consists of an acknowledgement that payment was received.	Other Transit Management Center(s) Regional ITS Management Center
	Service Payment	consists of payments for parking, tolls, transit fares, traveler information services.	Payment Instrument
	Service Usage Data - 1	consists of data required to generate a user's service invoice for services rendered as well as overall transit resource statistics, including trip origin and destination, departure and arrival time, vehicle % full at stop, (continued)	Payment Instrument
	Service Usage Data 2	(continued) number of passengers entering and exiting vehicle at stop, payment method, fare type, vehicle dwell time at stop, and wheel chair lift use at stop.	Payment Instrument

Destination Component	Data Flow Name	Definition	Source Component
Transit Route Equipment	Vehicle Parameters	consists of raw (i.e. unsensed environmental conditions associated with the vehicle (e.g. engine temp, door open/closed, vehicle position, velocity, acceleration, etc.)).	Transit Vehicle
Transit Service Provider(s)	Account Validation Notice	consists of a confirmation that a user's bank account or credit card number is correct and valid.	Financial Institution(s)
	Account Validation Request	consists of a request to determine the validity of a user's bank account or credit card number.	Transit Vehicle
	Activation/Deactivation Notice	consists of a notice of activation/deactivation of an entire ATIS service or service profile or a rideshare service provider profile.	Demand Responsive Transit Center(s)
			Regional ITS Management Center
	Activation/Deactivation Request	consists of a request for activation/deactivation of an entire ATIS service or a rideshare provider profile	User Interface Equipment
	Authorized User List	consists of a list of authorized users for the specified service.	Account Management Provider(s)
			Demand Responsive Transit Center(s)
	Demand Responsive Request	is a request to deviate vehicle from previously scheduled route to pick-up an additional passenger.	Demand Responsive Transit Center(s)
			Regional ITS Management Center
	Demand Responsive Response	provides a response to demand responsive request. This data indicates whether the vehicle driver confirms or denies a real-time demand responsive ride request.	Transit Vehicle
Detour Request	is a request to provide an alternate route between two transit stops.	Transit Vehicle	
		Transit Vehicle	
Detour Route	consists of an alternate route between an origin and destination. Used to route a vehicle around incidents/congestion, or to route a rideshare vehicle to pick up an additional customer.	Tailored Traveler Information Provider(s)	
Incident Conditions	consists of stored information applicable to an active incident that has impact on current travel conditions	Demand Responsive Transit Center(s)	
		Regional ITS Management system	
		Transit Service Provider(s)	
Link Reference Model	consists of a commonly defined set of point, linear, and area geographical locations, such as roadway links, which ITS systems use to share geographical information between themselves.	External Information Source (s)	

Destination Component	Data Flow Name	Definition	Source Component
Transit Service Provider(s)	Link Reference Model	consists of a commonly defined set of point, linear, and area geographical locations, such as roadway links, which ITS systems use to share geographical information between themselves.	External Information Source(s)
	Planned Event Information	consists of information about construction and/or special events (e.g. sporting events, parades)	Demand Responsive Transit Center(s)
			External Information Source(s)
			Regional ITS Management System
			Transit Service Provider(s)
			User Interface Equipment
	Pricing Requirements	consists of requirements for pricing transportation services.	Demand Responsive Transit Center(s)
			Other Public Agencies
			Other Transit Management Center(s)
			Regional ITS Management Center
			User Interface Equipment
	Profile Confirmation	consists of an acknowledgement that profile information has been received and processed.	Demand Responsive Transit Center(s)
			Regional ITS Management Center
	Provider Validation Notice	consists of a conflation that a provider's profile information is correct and valid.	External Information Source(s)
	Resource Request	consists of a request to provide personnel, vehicles, and equipment to an incident.	Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Division of Emergency Management Center
			Emergency Vehicle
			External Information Source(s)
			Freeway Traffic Management Center
			Incident Dispatch Center(s)
			Inter-Jurisdictional Incident Management system

Destination Component	Data Flow Name	Definition	Source Component
Transit Service Provider(s)	Resource Request	consists of a request to provide personnel, vehicles, and equipment to an incident.	State Patrol Dispatch Center
			Transit Vehicle
	Rideshare Completions	consists of an indication that a passenger completed a trip.	Transit Vehicle
			User Interface Equipment
	Rideshare Offer	consists of response to rideshare request. Includes trip itinerary, trip origin, destination and frequency, drop-off and pick-up times.	User Interface Equipment
	Rideshare Payment	consists of payment to a rideshare provider for services rendered.	Demand Responsive Transit Center(s)
			Regional ITS Management Center
	Rideshare Provider Information	consists of data needed by rideshare transportation providers. This data includes daily trip manifests for each rideshare vehicle, service usage information, etc.	Demand Responsive Transit Center(s)
			Regional ITS Management Center
	Rideshare Request	consists of data used to specify a specific trip itinerary, & to reserve or cancel a seat on a vehicle. Includes reservation request, cancellation request, rider ID & constraints, trip origination, destination & frequency, drop-off and pick-up times	User Interface Equipment
	Road Surface Conditions	consists of current and/or forecast road conditions such as dry, wet, flooded, snow covered, slippery, plowed, salted, sanded (based on road surface surveillance data and weather forecasts).	Demand Responsive Transit Center(s)
			External Information Source(s)
			Other Transit Management Center(s)
			Regional ITS Management Center
		Regional ITS Management System	
		Transit Service Provider(s)	
		Truck Center	
Schedule Adherence Information	consists of information describing fleet schedule adherence indicating route segment running time, transit stop arrival time and transit stop departure time.	Demand Responsive Transit Center(s)	
		Other Transit Management Center(s)	
		Regional ITS Management Center	

Destination Component	Data Flow Name	Definition	Source Component
Transit Service Provider(s)	Schedule Adherence Information	consists of information describing fleet schedule adherence indicating route segment running time, transit stop arrival time and transit stop departure time.	Regional ITS Management Center
	Service Payment	consists of payments for parking, tolls, transit fares, traveler information services.	Financial Institution(s)
			Transit Vehicle
	Service Usage Data 1	consists of data required to generate a user's service invoice for services rendered as well as overall transit resource statistics, including trip origin and destination, departure and arrival time, vehicle % full at stop, (continued)	Transit Vehicle
	Service Usage Data 2	(continued) number of passengers entering and exiting vehicle at stop, payment method, fare type, vehicle dwell time at stop, and wheel chair lift use at stop.	Transit Vehicle
	Traffic Conditions	consists of information about flow of traffic for a pre-determined reporting area.	Demand Responsive Transit Center(s)
			Regional ITS Management System
			Transit Service Provider(s)
	Transfer Delay Request	consists of an inter-agency request to delay departure of a connecting vehicle to assist transfer when the originating vehicle is late.	Inter-Jurisdictional Transit System
			Inter-Jurisdictional Transit system
			Regional ITS Management Center
			Regional ITS Management Center
			Regional ITS Management Center
	Transit Conditions	consists of information about transit vehicle schedule adherence, ride&are data, and transit provider information including but not limited to vehicle ID, transit stop, estimated vehicle arrival time, estimated vehicle departure time, current schedule.	Demand Responsive Transit Center(s)
			Other Transit Management Center(s)
		Regional ITS Management Center	
		Transit Service Provider(s)	
Transit Route	consists of Fixed Routes and Flexible Routes information.	Other Transit Management Center(s)	
		Regional ITS Management Center	
		Regional ITS Management Center	

Destination Component	Data Flow Name	Definition	Source Component
Transit Service Provider(s)	Transit Route Schedule	consists of arrival/departure times for each transit stop location along each transit route as well as transfer information	Other Transit Management Center(s)
			Regional ITS Management Center
			Regional ITS Management Center
Travel Conditions-1		consists of current/forecast information about traffic conditions, planned event information, incident conditions (e.g., accidents), transit conditions, road surface conditions, parking conditions (continued)	Demand Responsive Transit Center(s)
			Tailored Traveler Information Provider(s)
			Tailored Traveler Information Provider(s)
			Tailored Traveler Information Provider(s)
			Transit Service Provider(s)
Travel Conditions-2		(continued) and weather that is customized to a user's specified trip and mode(s).	Demand Responsive Transit Center(s)
			Tailored Traveler Information Provider(s)
			Tailored Traveler Information Provider(s)
			Tailored Traveler Information Provider(s)
			Transit Service Provider(s)
User Profile		consists of information specific to a user that uniquely identifies that user and their travel information preferences.	Account Management Provider(s)
			Demand Responsive Transit Center(s)
			User Interface Equipment
Vehicle Location		consists of information that indicates the location of each vehicle.	Transit Vehicle
Vehicle Parameters		consists of raw (i.e. unsensed) environment conditions associated with the vehicle (e.g. engine temp, door open/closed, vehicle position, velocity, acceleration, etc.).	Transit Vehicle
Weather Conditions		consists of current and/or forecast weather conditions such as rain, snow, fog, sunny, clear.	Demand Responsive Transit Center(s)
			External Information Source(s)
			Regional ITS Management System
			Transit Service Provider(s)

Destination Component	Data Flow Name	Definition	Source Component
Transit Vehicle	Account Validation Notice	consists of a confirmation that a user's bank account or credit card number is correct and valid.	Demand Responsive Transit Center(s)
			Other Transit Management Center(s)
			Regional ITS Management Center
			Transit Service Provider(s)
			Demand Responsive Transit Center(s)
			Regional ITS Management Center
	Demand Responsive Request	is a request to deviate vehicle from previously scheduled route to pick-up an additional passenger.	Transit Service Provider(s)
			Demand Responsive Transit Center(s)
			Regional ITS Management Center
Detour Route		consists of an alternate route between an origin and destination. Used to route a vehicle around incidents/congestion, or to route a rideshare vehicle to pick up an additional customer.	Transit Service Provider(s)
			Demand Responsive Transit Center(s)
			Demand Responsive Transit Center(s)
			Other Transit Management Center(s)
			Other Transit Management Center(s)
			Regional ITS Management Center
			Regional ITS Management Center
			Regional ITS Management Center
			Transit Service Provider(s)
			Transit Service Provider(s)
Equipment Assignments		consists of the assignment of equipment to vehicles, facilities, personnel, incidents, maintenance, training	Demand Responsive Transit Center(s)
			Other Transit Management Center(s)
			Regional ITS Management Center
Estimated Time of Arrival		consists of the projected time that resources will arrive at the incident location.	Demand Responsive Transit Center(s)
			Other Transit Management Center(s)
			Regional ITS Management Center

Destination Component	Data Flow Name	Definition	Source Component
Transit Vehicle	Incident Acknowledgment	consists of notification to the reporting source of the incident that incident data has been received and/or incident resources have been dispatched.	Demand Responsive Transit Center(s)
			Other Transit Management Center(s)
			Regional ITS Management Center
	Incident Conditions	consists of stored information applicable to an active incident that has impact on current travel conditions	Demand Responsive Transit Center(s)
			Other Transit Management Center(s)
			Regional ITS Management Center
	Payment Confirmation	consists of an acknowledgement that payment was received.	Demand Responsive Transit Center(s)
			Other Transit Management Center(s)
			Regional ITS Management Center
			Transit Service Provider(s)
	Personnel Assignments	consists of driver-to-run, driver-to-incident, supervisor-to-incident, maintenance personnel-to-incident, driver-to-training, and supervisor-to-training assignments.	Demand Responsive Transit Center(s)
			Other Transit Management Center(s)
			Regional ITS Management Center
	Response Routes	consists of routes that allow assigned incident resources to reach an incident location in a minimal amount of time	Demand Responsive Transit Center(s)
			Other Transit Management Center(s)
			Regional ITS Management Center
	Service Payment	consists of payments for parking, toils, transit fares, traveler information services.	Payment Instrument
			Payment Instrument
Payment Instrument			
Service Usage Data 1	consists of data required to generate a user's service invoice for services rendered as well as overall transit resource statistics, including trip origin and destination, departure and arrival time, vehicle % full at stop, (continued)	Payment Instrument	
		Payment Instrument	
		Payment Instrument	

Destination Component	Data Flow Name	Definition	Source Component
Transit Vehicle	Service Usage Data 2	(continued) number of passengers entering and exiting vehicle at stop, payment method, fare type, vehicle dwell time at stop, and wheel chair lift use at stop.	Payment Instrument
			Payment Instrument
			Payment Instrument
	Transfer Delay Request	consists of an inter-agency request to delay departure of a connecting vehicle to assist transfer when the originating vehicle is late.	Demand Responsive Transit Center(s)
			Inter-Jurisdictional Transit System
			Inter-Jurisdictional Transit System
			Inter-Jurisdictional Transit System
			Other Transit Management Center(s)
			Other Transit Management Center(s)
			Regional ITS Management Center
			Regional ITS Management center
			Regional ITS Management Center
			Regional ITS Management Center
			Regional ITS Management Center
			Regional ITS Management Center
Transit Service Provider(s)			
Vehicle Assignments	consists of assignment of vehicles to facilities jurisdictions, personnel, incidents, maintenance, training or available.	Other Transit Management Center(s)	
		Regional ITS Management Center	
Vehicle Location	consists of information that indicates the location of each vehicle.	Transit Route Equipment	
Vehicle Manifest	consists of scheduled arrival/departure times, and course of travel for a specified run.	Demand Responsive Transit Center(s)	
		Regional ITS Management Center	
		Transit Service Provider(s)	
Truck Center	Incident Conditions	consists of stored information applicable to an active incident that has impact on current travel conditions	State Patrol Dispatch Center

Destination Component	Data Flow Name	Definition	Source Component
Truck Center	Link Reference Model	consists of a commonly defined set of point, linear, and area geographical locations, such as roadway links, which ITS systems use to share geographical information between themselves.	External Information Source(s)
	Planned Event Information	consists of information about construction and/or special events (e.g. sporting events, parades)	External Information Source(s)
			Maintenance Dispatch Center
			User Interface Equipment
	Road Surface Conditions	consists of current and/or forecast road conditions such as dry, wet, flooded, snow covered, slippery, plowed, salted, sanded (based on road surface surveillance data and weather forecasts).	Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Demand Responsive Transit Center(s)
			External Information Source(s)
			Freeway Traffic Management Center
			Inter-Jurisdictional Traffic System
			Maintenance Dispatch Center
			Other Transit Management Center(s)
			Regional ITS Management Center
			Road Weather Information Center
			State Patrol Dispatch Center
	Road Surface Surveillance Data	consists of processed and summarized information that is created for describing the road surface conditions of a pre-determined location. (e.g. condition of road surface, road surface temperature, timestamp, & location)	Road Weather Information Center
	Traffic Conditions	consists of information about flow of traffic for a pre-determined reporting area.	Centralized Control Signal Center(s)
			Decentralized Control Signal Center(s)
			Freeway Traffic Management Center
		Inter-Jurisdictional Traffic System	

Destination Component	Data Flow Name	Definition	Source Component
Truck Center	Travel Conditions Request	is a request for travel conditions information. It can consist of a request for all basic travel conditions info or for travel conditions info. tailored to the user's specific needs (e.g.route, mode, jurisdiction)	User Interface Equipment
	Travel Conditions- 1	consists of current/forecast information about traffic conditions, planned event information, incident conditions (e.g., accidents), transit conditions, road surface conditions, parking conditions (continued)	Tailored Traveler Information Provider(s)
	Travel Conditions-2	(continued) and weather that is customized to a user's specified trip and mode(s).	Tailored Traveler Information Provider{ s}
	Weather Conditions	consists of current and/or forecast weather conditions such as rain, snow, fog, sunny, clear.	External Information Source (s)
			Road Weather Information Center
	Weather Surveillance Data	consists of current weather data as received from devices (e.g. radar, video).	Road Weather Information Center
User Interface Equipment	Activation/ Deactivation Notice	consists of a notice of activation/deactivation of an entire ATIS service or service profile or a rideshare service provider profile.	Demand Responsive Transit Center(s)
			Mayday Service Provider(s)
			Regional ITS Management Center
			Rideshare Center
			Tailored Traveler Information Provider(s)
			Transit Service Provider(s)
	Airline Data	consists of contact information for an airline as well as information about flight schedules, arrival, departure times, and ticket prices.	External Information Source(s)
	Emergency Medical Facilities Data	consists of information about facilities that provide emergency medical treatment.	External Information Source(s)
	Entertainment Data	consists of information about facilities that provide entertainment services (e.g. type of entertainment, location of facility, phone number, etc).	External Information Source(s)
	Fuel/Vehicle Services Data	consists of information about facilities for fuel and vehicle repair services.	External Information Source(s)
Incident Acknowledge- ment	consists of notification to the reporting source of the incident that incident data has been received and/or incident resources have been dispatched.	Broadcast Information Provider(s)	
		Centralized Control Signal Center(s)	

Destination Component	Data Flow Name	Definition	Source Component
User Interface Equipment	Incident Acknowledgement	consists of notification to the reporting source of the incident that incident data has been received and/or incident resources have been dispatched.	Decentralized Control Signal Center(s)
			Demand Responsive Transit Center(s)
			Division of Emergency Management Center
			Freeway Traffic Management Center
			Incident Dispatch Center(s)
			Inter-Jurisdictional Incident Management System
			Maintenance Dispatch Center
			Mayday Service Provider(s)
			Other Transit Management Center(s)
			Regional ITS Management Center
Link Reference Model		consists of a commonly defined set of point, linear, and area geographical locations, such as roadway links, which ITS systems use to share geographical information between themselves.	External Information Source(s)
			External Information Source (s)
Lodging Camping Data		consists of information about lodging and camping facilities.	External Information Source(s)
Mayday Acknowledgement		consists of notification to the reporting source of the incident that incident data has been received and/or incident resources have been dispatched.	Mayday Service Provider(s)
Mode Use Information		consists of information on how to use a specific transit mode (e.g. bus, train etc.) such as rules for use, hours of operation, payment methods, etc.	Regional ITS Management System
			Regional ITS Management system
			Transit Service Provider(s)
Parking Data		consists of information about parking lot location, parking rates, hours of operation and any special services that may be offered.	Regional ITS Management System
Parking Fees		consists of the specific prices charged for parking services.	Regional ITS Management system

Destination Component	Data Flow Name	Definition	Source Component
User Interface Equipment	Planned Event Data	consists of information about special events (e.g. sporting events, parades).	External Information Source(s)
	Profile Confirmation	consists of an acknowledgement that profile information has been received and processed.	Account Management Provider(s)
			Demand Responsive Transit Center(s)
			Mayday Service Provider(s)
			Other Transit Management Center(s)
			Parking Management Center(s)
			Regional ITS Management Center
			Rideshare Center
			Tailored Traveler Information Provider(s)
			Toll Authority Center(s)
			Transit Service Provider(s)
	Recreational Areas Data	consists of information about recreation facilities such as parks, trails, etc.	External Information Source(s)
	Rental Vehicle Data	consists of contact information for rental vehicle companies as well as information on rates and availability of vehicles.	External Information Source(s)
	Reservation/ Ticket Confirmation	consists of an acknowledgement that a reservation has been made or a ticket has been purchased.	External Information Source (s)
		Parking Management Center (s)	
Restaurant Data	consists of information about restaurant facilities.	External Information Source (s)	
Rideshare Information	consists of identity of the traveler and details of the transit route(s) that fulfill the origin destination requirements (e.g. transit route number, transit stop schedule and cost).	Demand Responsive Transit Center(s)	
		Regional ITS Management Center	
		Rideshare Center	
		Transit Service Provider(s)	
		Demand Responsive Transit Center(s)	
Rideshare Provider Information	consists of data needed by rideshare transportation providers. This data includes daily trip manifests for each rideshare vehicle, service usage information, etc.	Regional ITS Management Center	
		Rideshare Center	
		Transit Service Provider(s)	
		Transit Service Provider(s)	

Destination Component	Data Flow Name	Definition	Source Component
User Interface Equipment	Shopping Data	consists of information about shopping facilities such as malls, outlets, etc.	External Information Source (s)
	Tailored Directions	consists of step-by-step instructions that guide a user from their specified origin to their specified destination, using multiple transportation modes (if necessary).	Information Provider(s)
			Other Transit Management Center(s)
			Regional ITS Management Center
			Tailored Traveler Information Provider(s)
	Tailored Route	consists of a course of travel from the user's specified point of origin to their specified destination using multiple transportation modes (if desired).	Information Provider(s)
			Other Transit Management Center(s)
			Regional ITS Management Center
			Tailored Traveler Information Provider(s)
	Tailored Traveler Information	consists of yellow pages (food, lodging, fuel, tourist sight) and other traveler info. (medical facilities, airline, rental vehicle) that is customized to a user's specified trip and mode(s).	Tailored Traveler Information Provider(s)
	Tailored Trip Itinerary	consists of all information about a user's specific trip and mode(s) including route (w/map), directions, schedule (and date) information, information about destination point(s) and points of interest, etc.	Information Provider(s)
			Other Transit Management Center(s)
			Regional ITS Management Center
			Tailored Traveler Information Provider(s)
		Tailored Traveler Information Provider(s)	
Tolls	consist of the specific prices charged for use of a roadway	Toll Authority Center(s)	
Tourist Sight Data	consists of information about tourist sights such as museums, monuments, historical sights, etc.	External Information Source(s)	
Traffic Message	consists of instructions from traffic signals and signs recommending or directing vehicle drivers to modify their current operating state of the vehicle.	Centralized Roadside Equipment	
		Decentralized Roadside Equipment	
		Freeway Roadside Equipment	

Destination Component	Data Flow Name	Definition	Source Component	
User Interface Equipment	Traffic Message	consists of instructions from traffic signals and signs recommending or directing vehicle drivers to modify their current operating state of the vehicle.	Road Maintenance Roadside Equipment	
	Transit Fares	consists of the specific prices charged for transit services	Regional ITS Management System	
	Transit Route	consists of Fixed Routes and Flexible Routes information.	Regional ITS Management system	
	Transit Route Schedule	consists of arrival/departure times for each transit stop location along each transit route as well as transfer information.	Regional ITS Management system	
	Travel Conditions- 1		consists of current/forecast information about traffic conditions, planned event information, incident conditions (e.g., accidents), transit conditions, road surface conditions, parking conditions (continued)	Broadcast Information Provider(s)
				Centralized Control Signal Center(s)
				Decentralized Control Signal Center(s)
				Freeway Traffic Management Center
				Freeway Traffic Management Center
				Information Provider(s)
				Maintenance Dispatch Center
				Other Transit Management Center(s)
				Regional ITS Management Center
				State Patrol Dispatch Center
	Travel Conditions-2		(continued) and weather that is customized to a user's specified trip and mode(s).	Tailored Traveler Information Provider(s)
				Tailored Traveler Information Provider(s)
				Truck Center
				Broadcast Information Provider(s)
				Centralized Control Signal Center(s)
				Decentralized Control Signal Center(s)
Freeway Traffic Management Center				
Freeway Traffic Management Center				

Destination Component	Data Flow Name	Definition	Source Component
User Interface Equipment	Travel Conditions-2	(continued) and weather that is customized to a user's specified trip and mode(s).	Freeway Traffic Management Center
			Information Provider(s)
			Maintenance Dispatch Center
			Other Transit Management Center(s)
			Regional ITS Management Center
			State Patrol Dispatch Center
			Tailored Traveler Information Provider(s)
			Tailored Traveler Information Provider(s)
			Truck Center
			Demand Responsive Transit Center(s)
Vehicle Manifest	consists of scheduled arrival/departure times, and course of travel for a specified run		Regional ITS Management Center
			Rideshare Center
			Transit Service Provider(s)